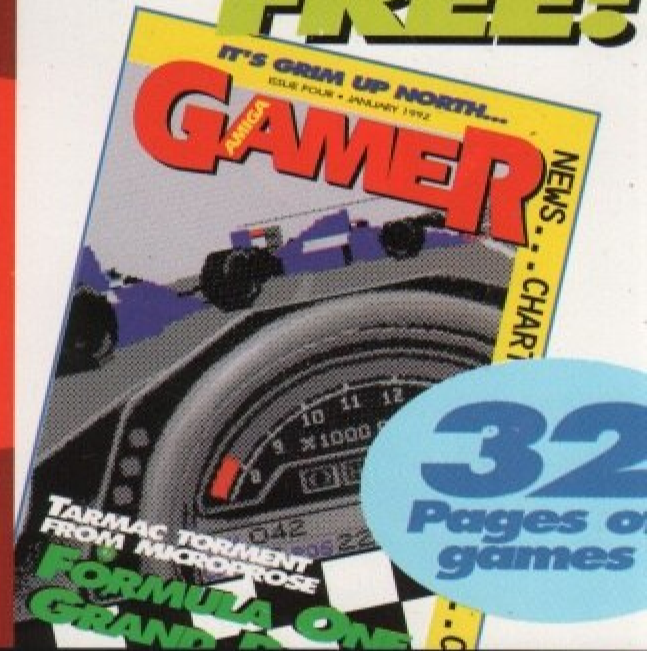
AMIGA COMPUTING

Issue 44 • January 1992 • £2.99

FREE!



32 Pages of games

INSIDE: Presentation Master • KCS Sequencer • Home Accounts 2

UNLEASHED:
the 24-bit power of the Amiga



NO COVERDISK?

ASK YOUR NEWSAGENT FOR ONE NOW!

The sensational new Amiga exposed!

Comms • Music • DTV • Amos • DTP

europress PUBLICATIONS

ANNOUNCING
THE
A5000 AND B5000

FREE
INFORMATION PACK
TELEPHONE
(0933) 650677

LIMITED STOCK

NEW



EARLY JANUARY SALE

A5000-16 1Mb £199

B5000-40 2Mb £499

IS YOUR AMIGA STILL IN THE STONE AGE?

"UNLEASH THE POWER OF YOUR AMIGA"

▼ JUST ADD TO YOUR AMIGA FOR ▼

- *B5000-25 Faster than the CBM A3000-25*
- *500-1000% Faster than your Amiga*
- *Massive 4-32Mb of superfast memory*
- *100% Software compatibility*
- *Plug-in up to a 50 MHz Maths Co-Pro*
- *B5000 has advanced 32-bit Paged-Mode design*
- *32-bit Kickstart — five/ten times faster*
- *Three models — A5000-16/B5000-25/B5000-40*

• THE MACHINES •

A5000-16: 16.67 MHz Asynchronous MC68020RC 2-3 MIPS (8 MIPS peak)
B5000-25: 25.00 MHz Asynchronous MC68030RP 5-6 MIPS (12 MIPS peak)
B5000-40: 40.00 MHz Asynchronous MC68030RP 8-9 MIPS (18 MIPS peak)
FPU: 12.5 MHz-50 MHz Asynchronous MC68881RC or MC68882RC
A5000-16 RAM: 4 Megabytes of 32-bit RAM 256 x 4 80ns DRAMs
B5000-25 RAM: 16 Megabytes of 32-bit RAM 1024 x 4 80ns DRAMs
B5000-40 RAM: 32 Megabytes of 32-bit RAM 1024 x 4 80ns DRAMs
SHADOW ROM: Move your Kickstart into 32-bit SUPER-FAST-RAM
SOFTWARE: 68000 Fallback mode for 100% software compatibility
HARDWARE: 100% Compatible with Amiga 500/2000 and add-on cards
INTERFACE 1: Plugs into 68000 processor socket inside your Amiga
INTERFACE 2: A/B2000 Co-processor (Zorroll) card (for B5000-40 only)

A5000-16 £295
(Price includes 1Mb RAM)

B5000-25 £595
(Price includes 1Mb RAM)

B5000-40 £1162
(Price includes 4Mb RAM)

(All prices inclusive of VAT)

SOLID STATE LEISURE LIMITED

Offer ends 31st January, 1992

AMIGA COMPUTING

JANUARY 1992

WHO'S WHO

EDITOR	Eddie McKendrick
ART EDITOR	Tym Leckey
FEATURES EDITOR	Paul Austin
NEWS EDITOR	John Butters
TECHNICAL EDITOR	Stevie Kennedy
PRODUCTION EDITOR	Phil Morse
GAMES EDITOR	Julian Boardman
STAFF WRITER	Daniel Whitehead
EDITORIAL ASSISTANT	Jonathan Maddock
GROUP AD MANAGER	Jane Conway
SENIOR AD SALES	Sue Horsefield
AD SALES	John Derbyshire
	Simon Lees
	Ruth Priestley
AD PRODUCTION	Martin Fitzgerald
MARKETING MANAGER	Neil Dyson
CIRCULATION MANAGER	David Wren
DISTRIBUTION	COMAG (0895) 444055
PRODUCTION MANAGER	Sue Cantrill
SYSTEMS MANAGER	David Stewart

Published by **Europress Publications Ltd.**
Europa House, Adlington Park, Macclesfield, SK10 4NP

CHAIRMAN	Derek Meakin
FINANCE CONTROLLER	Ian Bloomfield
PUBLISHER	Richard Williams

Tel: 0625 878888 (All departments)
051 357 2961 (Subscriptions)
Fax: 0625 879966

ABC Member of the Audit Bureau of Circulations

We regret Amiga Computing cannot offer technical help on a personal basis either by telephone or in writing. All reader enquiries should be submitted to the address above for possible publication.

europress PUBLICATIONS

For more than three years *Amiga Computing* has been the leading magazine for Amiga enthusiasts. As a key member of the Europress magazine group, *Amiga Computing* promises to inform, educate and entertain its readers each month with the most dedicated coverage of the Amiga available.

Amiga Computing • Atari ST User • PC Today • Shareware Shopper • The Micro User • Games-X • Amiga Action • ST Action • Crash • Zapp • Sega Force • Computer Trade Weekly

REGULARS

Amiga Newsline
Commodore to launch console-beating Amiga cut-down 9



Public Sector
Cut the cost with our round-up of the best in PD 119

ESP
Exra with another bumper bundle of your mail 149

ACAS
Our technical team gently guide you through the chips and crashes 159

Xtra
Round-up of rental and sell-thru videos, plus Christmas movies on Sky 193

Almanac
Whatever you use your Amiga for, the most lucid specialist writing is right

Communications 169
DTV 171
Programming 173
Music 175
AMOS 177
DTP 181
Multimedia 183



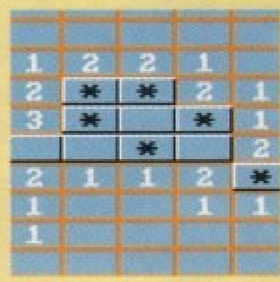
500 PLUS POINTS

The world's most popular computer just got a major revamp. Radically rethought from the inside out, the new Amiga contains major improvements. *Amiga Computing* reveals all.

THE C

CDESIGNER
Now you can save hours with this utility designed to create screens, windows and menus in C.

MINESWEEPER
A subtle and clever puzzle game, proving that simple is always best..



FASTCAT
Link your Amiga to a friend's with this powerful utility

DISKCAT
Which disk *was* that PD soil acidity predictor on? DiskCat is just what you've been looking for.

SHORTCUT
Customise your DOS, using hot keys and menus to save time and trouble.

Tune of the month
Get all exotic with thos *shuddering* pan pipes.

CONTENTS

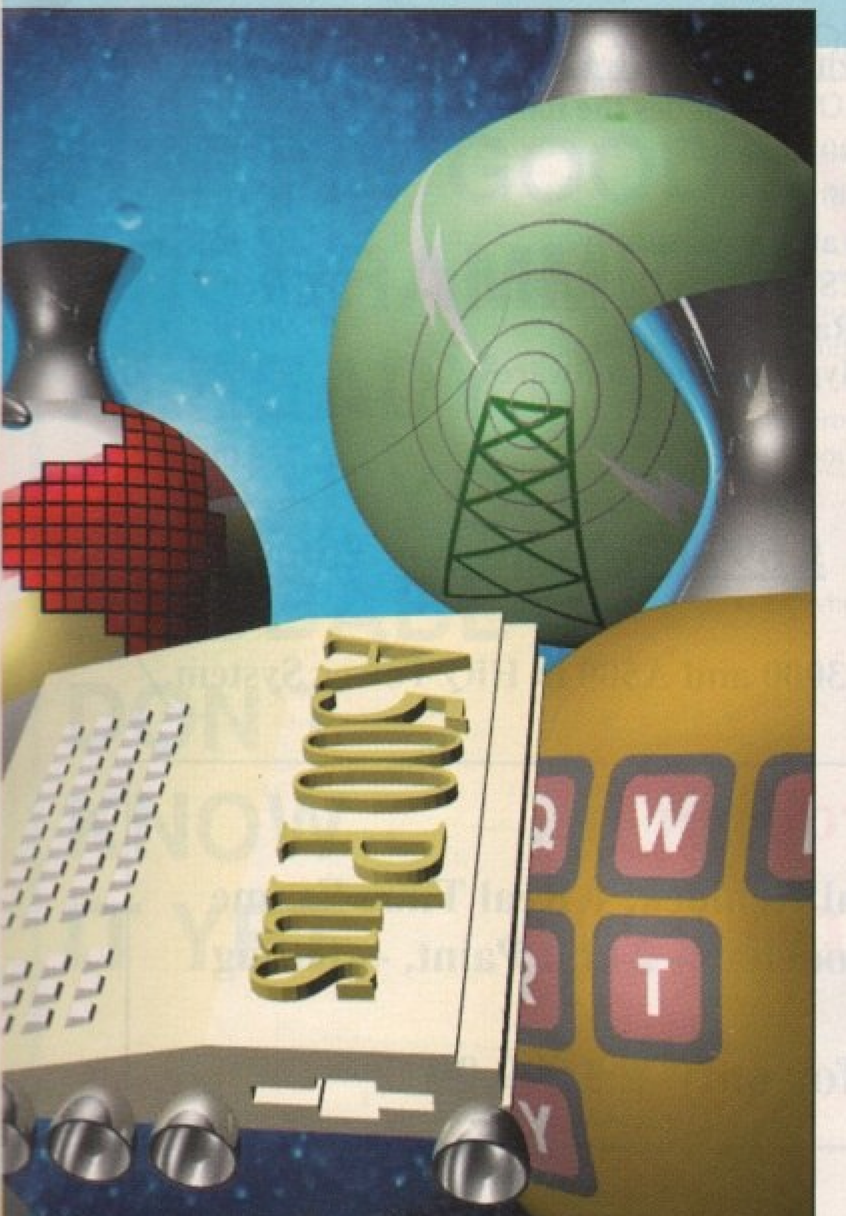
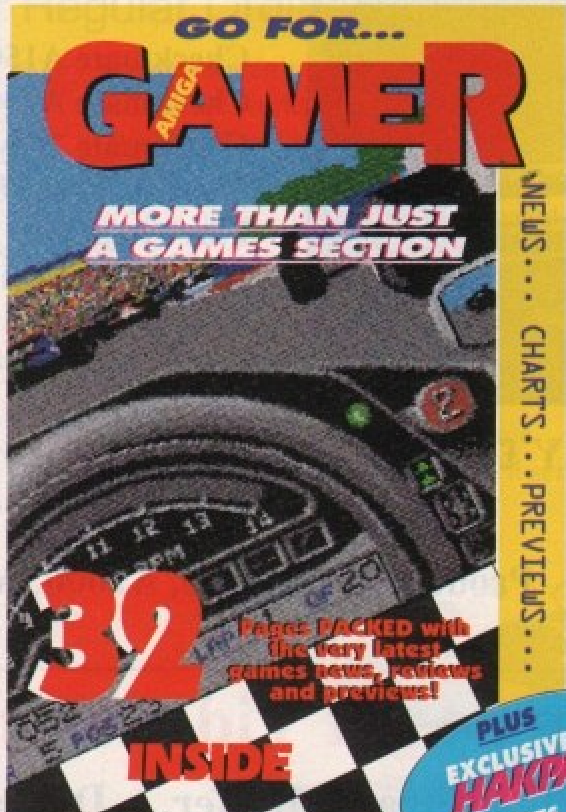


Image created by Henri Bujko of Alternative Image using Real 3D 1.4 – the program on offer in this month's *Amiga Computing* art competition



6 GREAT Subscription offers for new readers

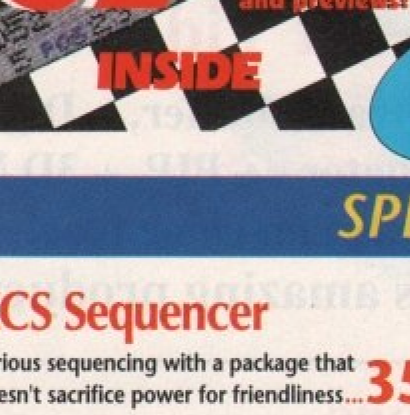
Turn to Page 184

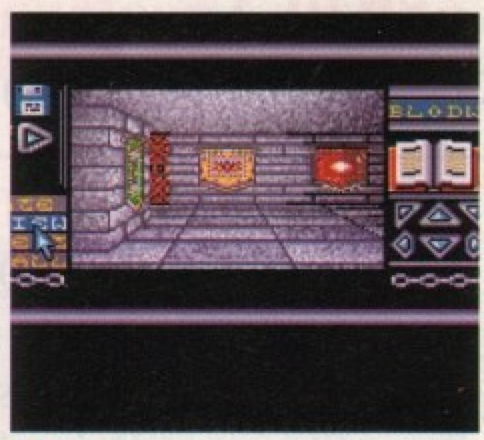
SPECIALS

KCS Sequencer
Serious sequencing with a package that doesn't sacrifice power for friendliness... **35**

24-Bit Paint
In part two of our in-depth survey, we take a hard look at the hardware...... **58**

Amiga Update
Refined or just repackaged? We appraise the lastest upgrades..... **105**





Stereo Master
A stunning versatile music package, for beginner and seasoned professional **51**

Visionary
Turn your wildest dreams into stand-alone adventures **115**

Presentation Master
Meetings will never be the same again. Presentations with Pzazz!....... **133**

Home Accounts
Even the most financially inept can control their cash with this package.. **139**

COMPETITIONS

Improve your presentation with an exciting selection of ray-tracing and video titling software – plus Grand Grab winners

Page 101

E COVERDISK

DEFENDA!

A stunning, modern interpretation of the coin-op legend. Defenda captures all the urgency of the original and adds a certain something of its own!



Checkmate Digital Hardware

Sales +44(0)71-923 0658



A1500 Base Unit ONLY £ 169.00

The Amazing Hyper Drive System from Checkmate

Includes the following

Checkmate A1500 Base unit	£ 169.00
Checkmate A2000 slot kit	£ 69.00
Checkmate 200watt power supply	£ 79.00
GVP series II SCSI/RAM card 52mb	£ 299.00
Plus extra 2Mb Ram	£ 90.00
Internal Fan + Hyper Helpers software	£ 49.00
Total	£ 755.00

Only £ 699.00 You save £56.00

GVP

Products for A1500, A2000, A3000 and A500 in HiQ Tower System.

Impact Vision 24 Bit Video Card.

16.8 million colour 24 bit frame buffer, + Digital Genlock, + Real Time Frame Grabber, + Flicker-Eliminator, + PIP, + 3D Modeler, + 24 bit Paint, + Titling Software. A Multi-Media Dream come true!

This amazing product for only £ 1699.00

68030 Accelerators

22MHz Combo 030/882 SCSI Controller, 13Mb Ram (1Mb pop)	£ 569.00
33MHz Combo 030/882 SCSI Controller, 16Mb Ram (4Mb pop)	£ 1249.00

68040 Accelerator

G-Force for the A3000 only, 4-5 times speed increase.	£ 2099.00

Series II SCSI + 8Mb Unpopulated Hard Cards.

HC8 + 0/52Q - 11	Quantum Drive mechanism 11ms access.	£ 299.00
HC8 + 0/105Q - 11	As above	£ 499.00
Simms for above cards, price per 2Mb		£ 90.00
Tape Streamer Drive 150Mb		£ 729.00
Ricoh removable 50Mb Hard Drive		£ 769.00

Bare Quantum SCSI Hard Drives. 11msec access time.

52 Mb £ 229.00 105Mb £ 369.00

CHECKMATE DIGITAL LIMITED

Checkmate Digital Ltd, 80 Mildmay Park, London, N1 4PR

Tel +44 (0)71-923 0658, Fax +44(0)71-254 1655,

BBS +44(0)71-923 2608

Checkmate Digital Software

Sales +44(0)71-923 0658

YOU'RE A PRETTY GOOD PROGRAMMER ALREADY. BUT YOU PROBABLY DON'T KNOW IT YET.

Object Oriented Program Construction for Regular Ordinary People.

While you weren't watching, we turned you and the rest of the world's Amiga users into programmers.

With CanDo's intuitive interface and simple but powerful toolkit, ordinary people all over the country have been creating stand-alone utilities, data bases, word processors, vertical market applications, animated multimedia presentations, and all sorts of games.

Experienced programmers (many of them not ordinary at all) have been prototyping applications in CanDo for the sake of expediency and finding as often as not that there's little left to do when they get through.

We get rave letters every day.

Give us a call and we'll read you some.

Better yet, just say the word and we'll send you a nice low cost sample of the whole CanDo package.

Only £99.00



The New Wave Disk Utility

Directory OPUS

So...

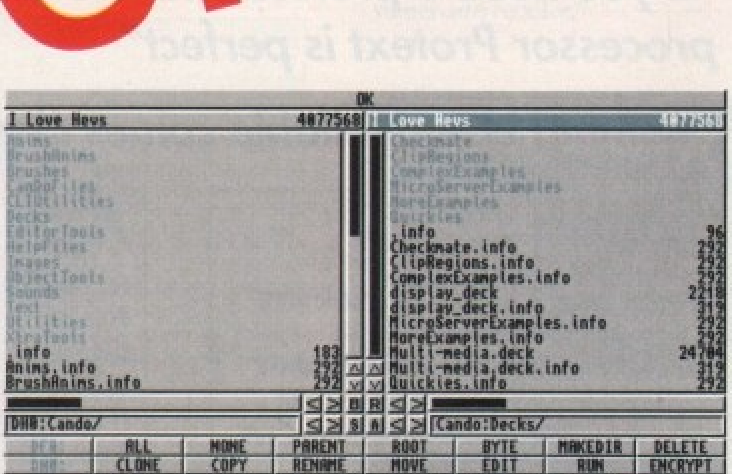
You don't think directory utilities are very exciting, eh?
Time to look at Directory Opus. It's got everything you need.

Standard Dir Util Features

* copy, move, rename, delete, and archive files
* create new directories
* copy, format and install disks
* read and print files

Special Features

* Over 100 configurable buttons and menus
* Runs programs and Launches CanDo decks
* Shows pictures, brushes, fonts and icons
* Shows ANIMs and AnimBrushes
* Plays 8SVX sounds and SoundTracker files
* Memory resident with hot key access/iconifiable
* Complete directory tree and history
* Online help for all Opus features
* Complete ARexx support and all 2.0 Screen modes
* TOO MUCH MORE TO LIST.!



Only £ 39.00

CanDo and Opus Distributed in the UK by Checkmate Digital Ltd Tel 071-923 0658, Fax 071-254 1655, BBS 071-923 2608
INOVAtronics, Inc. Dallas, Texas. Also available from SDL and HB Marketing

Amiga console beater coming

By John Butters

TOP SECRET plans for a cut-down A500 to compete against games consoles have been leaked to *Amiga Computing* from reliable sources in the States.

Commodore talked about the machine behind closed doors at a developer's conference in Denver, Colorado, in September. Visitors were forced to sign a non-disclosure agreement to prevent information being passed on to the press.

The Amiga 300 will keep most of the A500's specifications but is likely to enable games players to buy an Amiga for less than £200. It will use the current operating system and will continue to be based on the 68000 processor.

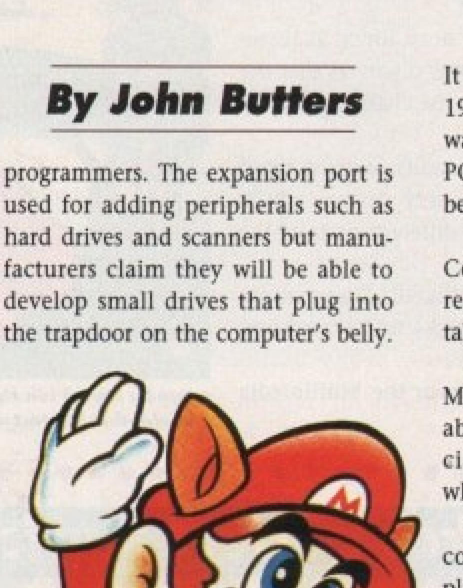
The A300 is to be housed in a smaller case and the numerical keyboard and side expansion port will be dropped. Those who will miss the numerical keyboard most are spreadsheet users and programmers. The expansion port is used for adding peripherals such as hard drives and scanners but manufacturers claim they will be able to develop small drives that plug into the trapdoor on the computer's belly.

It will be ready for shipping during 1992 but the company are likely to wait until the growth of consoles and PCs affects entry-level Amiga sales before releasing it.

When asked about the A300, Commodore's Andrew Ball simply replied: "I don't know what you're talking about."

Another employee at the Maidenhead office said: "I can't talk about the computer until it's officially announced – I don't know when that will be."

Other companies in the home computer market are also making plans for the predicted console boom. Atari, for example, are trying to reposition their machines as home computers capable of more than games.







Consoles could become a major threat to home computers. As more people turn to machines such as Nintendo's Entertainment System (above), Commodore are taking no chances and are developing their own console beater – a cut-down A500



CDTV sees a price fall of £100 which Commodore say is a result of the machine becoming established in the general consumer market

CDTV price tumble

THE price of Commodore's CDTV has bee slashed by £100 just in time for th Christmas selling period. It now sells a £499.

Commodore prevented mail order com panies from advertising the product at th reduced price before the High Street by giv ing a late announcement. This gave shops brief period to sell exclusively at th cheaper price.

"Now that we have proof that CDTV established in the general consumer mar ket we are able to adjust the price to reflec this," commented Commodore bos Stephen Franklin.

"Like all revolutionary products – tak the video recorder – CDTV has passe through the critical acceptance threshol and we can pass the benefits on to the con sumer and retailer."

Plus memory

THE first memory upgrade for the new A500P has been developed by American firm ICD and is set to go on sale shortly in the UK from Power Computing (0234 843388).

AdRAM 510 Plus doubles the memory of the computer to two megabytes and plugs straight into its trapdoor. At the time of going to press no prices were available, but at the recent Amiga show in Cologne it sold for DM199 (about £66).

Power are also working on their own memory upgrade for the A500P. Two megabytes of extra memory will be included on the board.

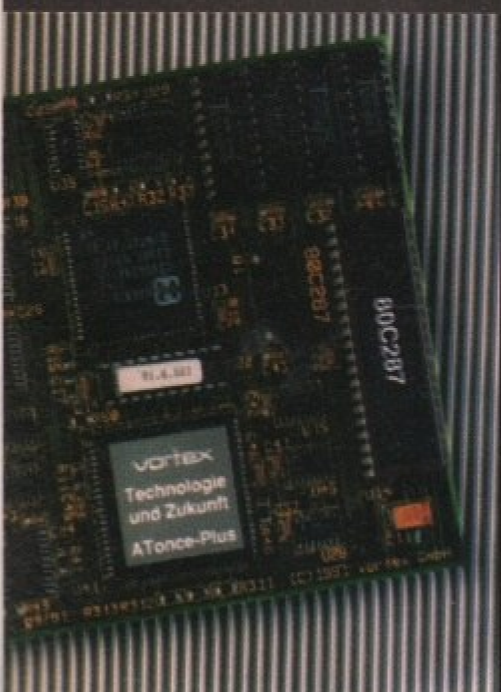
AMIGA COMPUTING NEWSLINE

Faster PC on A500

PEOPLE wanting to run PC software on their A500s can now buy the latest version of Vortex's ATonce.

It has double the processing power of the earlier board, with a clock speed of 16MHz, 512K RAM upgrade and a socket for a maths co-processor to increase the performance of programs which carry out many calculations such as computer aided design software AutoCAD.

With a Norton SI rating of 16.2, ATonce Plus costs £229 from Silica Systems (081-309 1111).



ATonce-Plus runs as a task within AmigaDOS and now runs at 16MHz

Artistic upgrade

PREMIER 24-bit paint package TV Paint has been upgraded and made compatible with G2 Systems' VD2001 graphics board.

Among the many new features in version 1.4 of TV Paint are oriented or centred colour ranges, giving either a user-defined direction of a colour range or a spread of colours arranged as concentric circles.

Brush Wrapping enables brushes to be wrapped on to filled shapes. Either or both of the X and Y dimensions can be selected.

Using a temporary file for storage, a user-defined part of the screen can be altered and saved to allow editing on another portion of the file, enabling files larger than the screen to be edited.

An anti-aliasing function has been added to most of the drawing options to give line anti-aliasing when used with the single pixel-sized brush or filled shape option.

TV Paint costs £940 from Amiga Centre Scotland (031-557 4242), and G2 Systems (0252 737151) sell VD2001 for £2,056.

Drive price dives

THE price of Great Valley Products' 52 megabyte HD8+ hard drive for the A500 has been slashed to £399.

"In independent tests the GVP HD8+ could only be criticized for its price," said a GVP spokesman. "We've now turned the table, making it not only cheaper than before, but considerably lower than similar capacity competitors."

The official distributors in the UK are Silica Systems on 081-309 1111.

Boost for Barney

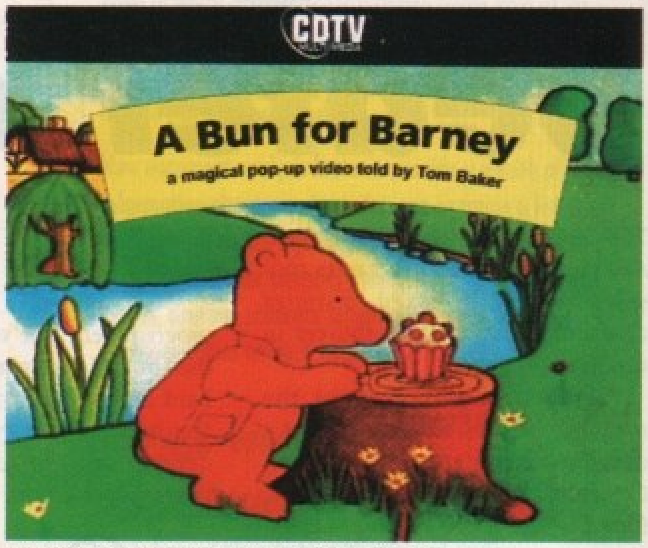
CDTV title A Bun for Barney has just picked up an award for Best Consumer Title at the recent British Interactive Media Association Awards in London.

A Bun for Barney is an animated story aimed at three-to-eight-year-olds in which a small bear discovers that the world is full of bounders ready to rip the cherries from his iced bun.

The pop-up world contains animations, surprise word and number games and hidden nursery rhymes which children can explore by clicking on different parts of the screen.

Collecting the award for the Multimedia Corporation, Graham Bartram said: "We're delighted – we always knew Barney was a winner."

A Bun for Barney costs £29.95 from the Multimedia Corporation on 071-722 7595.



A Bun for Barney is a story aimed at three to eight-year-olds that has just won a coveted award

Patching makes perfect music

TWO new music utility packages are heading to the Amiga from American firm Blue Ribbon SoundWorks (010 1 404 377 1514).

The PatchMeister is a Midi patch librarian with features including a full array of point and click bank editing options, an unlimited number of banks and libraries and an attachment of comments and search key.

It has flexible Midi set-up options including snapshots, setup files and SysEx attachments and enables the Amiga keyboard to simulate a piano keyboard. PatchMeister can be used as a standalone program or can be incorporated into Bars and Pipes Professional.

Midi interface Triple Play Plus has been designed to accommodate Bars and Pipes Professional. It features three separately-addressable Midi outs enabling 48 simultaneous Midi channels and includes a Midi in and Midi thru.

Owners of Bars and Pipes Professional will also receive special Midi Out Tools so they can use the interface from within the package. It will cost $189. In the UK call Zone Distribution on 081-766 6564.

Saddam on the loose

AMIGA users are in danger of their machines becoming infected with one of the worst types of computer virus after Saddam was let loose on coverdisks from *Amiga User International's* December 1991 issue.

As we went to press, three weeks after *AUI* went on sale, staff at the magazine were still denying that their disk was contaminated, and refusing to say how many copies had been distributed.

Managing editor, Antony Jacobson, said that complaints were coming from people checking his disk with a rogue virus checker, the version of Virus Checker given away on *Amiga Computing's* CoverDisk in November. Later he said that if a virus had sneaked on to the disk, it was inactive because it did not write itself to other disks. Unlike most strains, Saddam waits until the disk validator has been read before becoming active.

"We have assured ourselves that there is no danger there," said Jacobson. "I don't think this is a problem of great note because there's such a small number of people involved.

"As an inactive virus it isn't particularly dangerous and futhermore I would say that anybody with sense checks any disk that comes in these days."

AUI claim all their coverdisks are virus checked before being sent for duplication and that they would replace any disks damaged as a result of readers using their coverdisk.

Our technical editor Stevie Kennedy examined three copies of the disk, all from different newsagents. As soon the disk validator had been read, Saddam came to life and spread on to other disks.

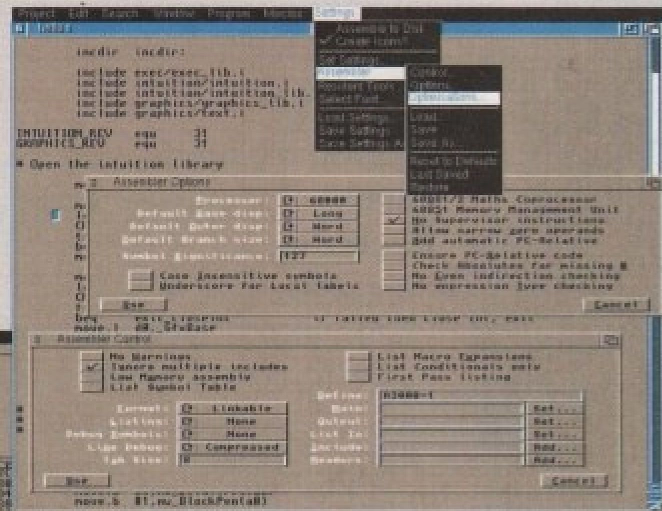
The best known antidote is version 5.26 or above of Virus Checker, which can detect and kill the virus.

In case you missed it on our November 1991 CoverDisk, readers can get hold of it free by sending a sae to: Saddam Virus Alert, Europa House, Adlington Park, Macclesfield SK10 4NP.

Some things are worth waiting for ...

HiSoft Devpac 3

Devpac Version 3 is here at last. The two earlier versions of HiSoft Devpac for the Amiga set a standard in 68000 assembly language programming which was hard to surpass, but we think that we've done it. This new package has had a complete face-lift, from the editor through to the debugger; in fact so many features have been added and improved that we feel confident in the claim that Devpac 3 is the ultimate assembly language development system on the Amiga … for now!



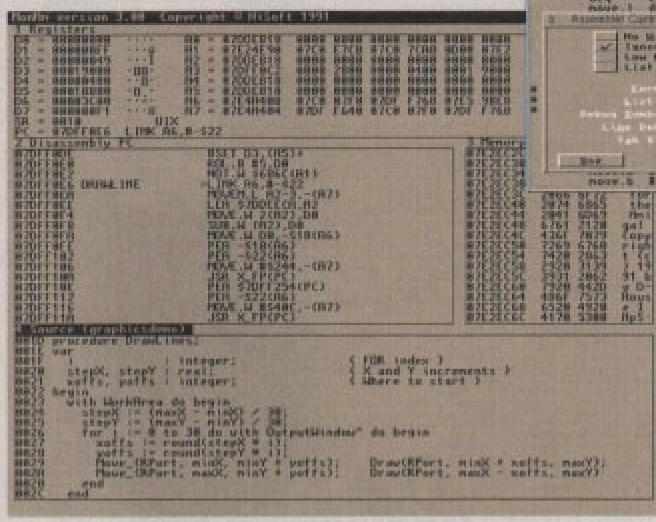
Devpac 3 gives complete control over the assembly process

The Editor

A new multi-window editor with bookmarks, mouse block-marking, macros, complete window flexibility (including multi-views on one file), extensive user configuration and full integration with the other Devpac programs. The editor makes use of Workbench 2 or 1.3 automatically.

The Assembler

Improved and extended, the Devpac 3 assembler is now at least 40% faster than its predecessor (without pre-assembly), supports the full 680x0 range of processors including the maths co-processors and has a tremendous number of switchable optimisations. With the ability to pre-assemble files for inclusion, it can now claim to be the fastest assembler on the Amiga.



the debugger supplied with both packages

The Debugger

Devpac 3 is provided with a versatile debugger/disassembler for bug hunting and ease of learning. You can have as many views on your program as you like, including its source code; then set breakpoints, single-step instructions etc. even at a source code level. Again, there is support for all the new processors and the floating point chips.

Devpac 3 comes complete with all the necessary include files, a linker, many examples and a clear, helpful manual.

HighSpeed Pascal



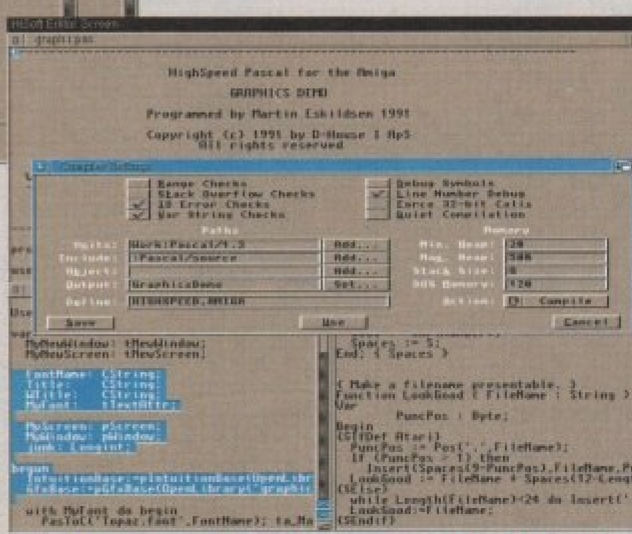
error detection is fully interactive

At last, a new Pascal compiler for your Amiga; HighSpeed Pascal. Compiling at close to 20 000 lines per minute on a humble A500 and with a fully integrated environment (based on the new HiSoft multi-window editor), HighSpeed Pascal is the answer to your programming prayers.

The compiler is very close to the standard set by Turbo Pascal 5 on the PC and enables you to port programs directly from the PC or ST - even the BGI unit is provided for graphic compatibility. You can compile separate units, link with assembler or use the inline assembler provided and we also supply a special version of our 680x0 debugger which allows you to debug Pascal programs at a source code level.

The full Pascal language is supported including such worthy additions as structured constants, flexible string handling and absolute variables.

HighSpeed Pascal comes complete with all the necessary files for working with the Amiga's operating system, a host of examples and a professional, ring-bound manual.



HighSpeed Pascal is remarkably friendly and easy-to-use

HiSoft Devpac 3 (£69.95) and HighSpeed Pascal (£99.95) should be in your local computer shop soon. If you have difficulty locating a copy, you can order directly from HiSoft using Access/Mastercard, Visa, UK debit card (Switch etc.) or a cheque/postal order. Mention this magazine when ordering to receive a free T-Shirt or mouse mat (offer subject to availability).

HiSoft Devpac 3 and HighSpeed Pascal are just two of the products that we supply for your Amiga. Other titles include: ProFlight, HiSoft BASIC, Extend, SAS/Lattice C 5 and HiSoft C. For more details contact us at - HiSoft, The Old School, Greenfield, Bedford MK45 5DE UK.

Tel: (0525) 718181, Fax: (0525) 713716.

HiSoft
High Quality Software

Crystal Computers

Have a Cryst

Crystal's 'toon' Pack

Amiga A500 computer

PLUS

Bart Simpson, Captain Planet, Deluxe Paint III, Lemmings (game of the year)

PLUS

FREE 10 games: Dungeon Quest, Kid Gloves, Flight Path 737, E-Motion, Plutos, Artificial Dreams, Space Station, Eye of Horus, Power Play, Tower of Babel

PLUS

FREE 512K RAM upgrade,
FREE Mouse mat,
FREE Crystal gift Voucher (value £5)

Only £399.99

We Guarantee a prompt and reliable service



Crystal's Players Dream Pack

Amiga A500 computer

FREE 512K RAM upgrade

PLUS

FREE 25 games

Bart Simpson, Dungeon Quest, Artificial Dreams, Tower of Babel, Eye of Horus, Monster Slam, Ice Hockey, Jump Jet, E-Motion, Slayer, Starray, Microprose Soccer, Quadralien, 5 Gear, DataStorm, Thai Boxing, RV Honda, Space Station, Shufflepuck, Warzone, Kid Gloves, Battle Valley, Starblaze, Star Goose, Steel.

PLUS

FREE microswitched joystick,
FREE deluxe mouse mat,
FREE 20 blank disks,
FREE Crystal gift voucher (value £5)

Only £449.95

DTP / Word Pro/Utils/Video etc.

Rombo complete colour solution including: Vidi Amiga; Vidi Chrome; Vidi RGB (Photon Paint limited offer)	£159.95
Rombo 'New' Vidi Amiga Vidi Amiga; Vidi Chrome (Photon Paint limited offer)	£116.95
Rombo Vidi RGB (electronic colour splitter) inc. PSU.	£69.95
Amiga Vision desktop video	£119.95
Elan Performer V2	£49.95
TV Text Professional	£113.00
Video Effects 3D	£139.95
Showmaker	£269.95
Deluxe Paint II	£39.95
Director v 2	£79.95
Image (animation)	£168.90
Walt Disney animation	£79.95
Photon Paint 2	£29.00
Vista	£55.00
Video Effects 3D v1.2A	£119.95
Modeller 3D	£51.99
X-CAD 3D	£269.90
Cross DOS	£22.00
DOS 2 DOS	£22.90
X-Copy Professional	£32.50
All-in-1	£54.00
Sound Master	£104.00
Real 3D beginners	£99.99
Real 3D professional	£280.00
Latice C++	£221.50
Latice C v5.1	£169.00
Dr. T KCS v3	£219.00
Midi Recording Studio	£43.00
Frame Grabber PAL colour	£490.00
Maxi-plan+	£49.95
Pagesetter v2	£52.95
Pagestream 2.1	£174.95
Professional Page v2	£159.95
Saxon Script Professional	£84.95
Saxon Publisher (Ultimate DTP)	£229.95
Kids Type	£21.95
Pen Pal	£74.95
Protext v5	£129.95
Scribble Platinum	£44.95
ProWrite 3.1	£139.95

Amiga Hard Drives

Protar A500 HD 20Mb 0Kb RAM	£265.00
Protar A500 HD 30Mb 0Kb RAM	£325.00
Extra RAM 1Mb	£55.00
Extra RAM 2Mb	£109.95
RAM power supply	£31.95

Monitors

Visto Stereo 14" colour for any Amiga 600 pixels * 285 lines. incl. FREE lead. (improved Philips under licence)	£239.95
Commodore 1084S stereo (latest model inc free leads)	£259.95
Citizen/Trinitron Multi-sync	£349.95
Philips Stereo 8833MkII (inc Free F-19 Stealth fighter) (Amiga / ST / STE lead £7.95 - please state which)	£249.95
Commodore 1950 14" multi-sync tilt/swivel (includes Free cable 1500 / 2000 / 3000)	£449.95

Disks KAO

3.5" DSDD 135tpi bulk. All disks 100% error free. Complete with labels.

25	£11.95
50	£21.95
100	£37.50
200	£71.95
Rainbow packs	
5 each of six colours (30)	£16.00
10 each of six colours (60)	£31.00
20 each of six colours (120)	£52.80

Amiga hard drives

Commodore A590 20Mb 0Kb RAM	£289.95
Commodore A590 20Mb 1Mb RAM	£phone
Commodore A590 20Mb 2Mb RAM (fitted)	£369.00
GVSP2 52Mb on/off switch 0Kb RAM	£389.95
GVSP2 (expandable up to 8Mb)	£phone
GVSP2 105Mb 0Kb RAM	£590.00
Supra 500XP 20Mb 0.5Mb RAM fitted	£339.95
Supra 500XP 20Mb 2Mb RAM fitted	£429.95
Supra 500XP 80Mb 0.5Mb RAM fitted	£589.95
Supra 500XP 105Mb 2Mb RAM fitted	£689.99

Modems

SupraModem 2400	£128.00
SupraModem 2400 MNP (MNP 2-5)	£158.00
SupraModem 2400 Plus (MNP / V24bis	£179.00
SupraModem 9600 Plus (V32 MNP V42bis)	£499.95

all modems come with FREE RS232 lead / K-Comm software

Peripherals

Commodore A2088 XT bridgeboard	£289.95
Commodore A2686 AT bridgeboard	£656.95
Commodore A23000 1500/2000 internal genlock	£89.95
Commodore 1535 display enhancer 1500/2000 (requires multi-sync monitor)	£229.95
Cumana external disk drive	£59.95
SupraRAM 500RX slimline memory expansion. Uses expansion port with bus pass, through test mode software on/off switch.	
8Mb exp with 2Mb installed	£194.95
SupraRAM 500RX with 4Mb installed	£267.95
SupraRAM 500RX with 8Mb installed	£418.00
Podscat 12*12 drawing inc puck / pen-cursor	£193.95
External 5.25" disk drive	£145.95
8802 genlock	£234.95
8802 mode switch box	£34.95
8802 extension cable	£9.95
Minigen genlock	£109.95
Naksha mouse	£22.95
Optical mouse	£43.00
High quality Euro mouse ST/Amiga	£19.95
Phantom SMPTE generator	£239.95

Printers

All our printers come with a free Amiga drivers disk

Inks for JX730	£7.95
'New' **Star** LC-20. This is the great new printer to follow that superb classic, the LC-10. New features include 180cps draft / 45cps nlq, mono, 8 fonts, friction / tractor, paper park, auto load	£169.95
Star LC-200 Colour / mono, 9 pin, 45cps nlq / 180cps draft / hi speed draft 225cps, 16Kb buffer, friction / push pull tractor	£209.95
Star LC-24200 Colour / mono, 24 pin, 67cps nlq / 200cps draft / hi speed draft 222cps, 7Kb buffer, expandable to 39Kb, 10 fonts, optional font cards, friction push or tractor pull.	£295.95
Star LC-2410 Mono, 24 pin, 45cps nlq /180cps draft, 8 fonts, optional font cards, paper park, excellent 24 pin	£209.95
'New' Star Pro-to-col series	
Star ZA-200 Colour / mono, 84cps nlq / 336cps draft / 420cps hi speed draft, 32Kb buffer, 8 resident fonts, friction push tractor, advanced paper park, autoload, 1 year on-site warranty	£369.95
Star ZA XB24-200 Colour / Mono, 24 pin, super letter quality with 48 pin feature, 4 SLQ fonts, 14 LQ fonts, 100cps lq / 332cps draft, 20Kb buffer	£phone
Seikosha SP-1900 (Amazing price, superb printer, 192 cps draft, 48 cps nlq, Paperpak)	£115.00
Seikosha LT-20 24 pin notebook printer, amazing sive (sits under a laptop)	£270.00
Seikosha SP-2000 Parallel, serial, interface, Paperpak, 21K buffer, 192 cps draft, 48 cps nlq	£144.90
Seikosha SL-92 24-pin, 240 cps draft, 66 cps nlq, 44K buffer, 360x360 dpi graphics and a host of features. A superb printer only	£211.99
Citizen 120D+	£133.75
Citizen 124D	£182.95
Citizen Swift 9	£199.00
Citizen Swift 24	£295.95

Free colour kit with Swift printers, worth **£39.95**

Commodore MPS 1270 inkjet	£189.95
Commodore MPS 1230 9 pin mono	£145.00
Commodore MPS 1550C 9 pin colour	£219.95

SPECIAL OFFER

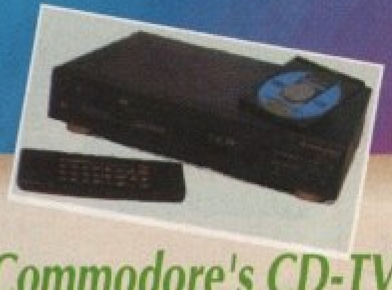
PrinterPak comprising of: cable, 200 sheets of paper, printer stand. Normally £29.95, when ordered with any printer, only £14.95

We stock a full range of books, joysticks, ribbons,music software, hardware, disk storage, boxes, cables, etc.
Please call: 04024 38438
Government and trade orders welcome

al Clear Christmas

A Happy Christmas to all our customers!

Crystal's CDTV Pack



Commodore's CD-TV

Multimedia system for the home.
A new dimension - A new lower price.
The ultimate in home entertainment and education

INCLUDES

CDTV 489.00
FREE Welcome. A guide to CDTV (value) 34.99
FREE Lemmings (Arcade classic) (value) 34.99
FREE Hutchinson's Encyclopedia (value) 49.99
Inc. Infra-Red Remote Control.

Pack value : £608.97

Only £489.00

Other CDTV Titles

Education

A Bun for Barney (3-5)	29.95
Barney Bear Goes to School (2-6)	25.95
Cinderella (6+)	34.95
Fun School 3 (3-5)	21.95
LTV English	29.95
My Paint (3-9)	25.95
Paper Bag Princess (6+)	29.95

Music

CD Remix	25.95
Music Maker	29.95
Musicolour	T.B.A

Arts & Leisure

Women in Motion	25.95
Trees, Shrubs, Conifers	29.95
Indoor Plants	29.95

Animate Colouring Bk	16.95

Entertainment

Battlestorm	25.95
Classic Board Games	29.95
Defender of the Crown	25.95
Falcon	41.99
Case of Gautios Condor	29.99
Battle Chess	38.00
Sim City	25.95
Pro Tennis Tour II	25.95
Psycho Killer	25.95
Sherlock Holmes	37.95
Spirit of Excalibur	29.95
Team Yankee	25.95

This is a small list of titles available. Full list is sent with orders.

Crystal's Spellbinders Pack

Amiga A500 computer

PLUS

512K RAM expansion

PLUS

Pro-write 2.5 – *word processor*
Deluxe Paint II – *art*
Deluxe Print II – *pretty!*
Infofile – *database*
Music Mouse – *at least it doesn't squeak!*
Logo + talking turtle – *Childrens art language learning*
Lets spell at home – *educational*
BBC emulator – *read your old beeb files*

PLUS

10 blank disks, deluxe mouse mat
FREE resource file – *curriculum guide*
FREE introductory video – *pop it into the VCR and relax*
FREE 10 great games – *for when the serious stuff finishes*
FREE Crystal gift voucher (value £6)

total retail value £1070.00
Crystal price £499.95

Amiga A500 & A500+

All our Amigas are UK specified, and unless stated, consist of the following:

1. 3 operating manuals
2. 1Mb built-in disk drive
3. Commodore mouse pointer
4. Built-in Kickstart 1.3 or 2.0
5. TV Modulator
6. Built-in speech synthesis
7. 4096 colours
8. Power supply
9. 512Kb RAM or 1Mb built-in
10. Workbench 1.3 or 2.0
11. Tutorial disk
12. Extras disk 1.3 or 2.0
13. Digital 4 channel stereo
14. Built-in 'notepad' simple w/p
15. Amiga BASIC language
16. Necessary cables

This months Crystal Ball
'Euromouse' ST/Amiga switchable. £14.00

Crystal Ball Special
Amiga Half Meg RAM upgrade with clock... £24.95

To order

Just telephone our sales hotline number – 04024 38438 9am to 10pm. Quote your full name and address, your Access / Visa / Creditcharge number, along with your requirements. Include your daytime telephone number. Or, send your personal / building society cheque / bankers draft, with full details, to our mail order address: Unit 4, 11a Station Lane, Hornchurch, Essex, RM12 6JL. All prices are inclusive of VAT.

Vouchers

Our deluxe gift vouchers can be easily used, just phone our sales number – 04024 38438. To purchase a gift voucher, call our sales team. If you have recieved a free gift voucher from us (1 per sale), it can only be used on goods whose total value exceeds £50 excluding postage.

Backup service

We honour the warranty's as given by the manufacturer, subject only to proof of purchase. Where Atari hardware has failed in the first 28 days, we will exchange that item with a new replacement. After 28 days equipment will be repaired.

Collections

Visitors are welcome at our retail showroom and collections can be arranged with dispatch manager – phone 04024 38438.

Finance / Credit facilities

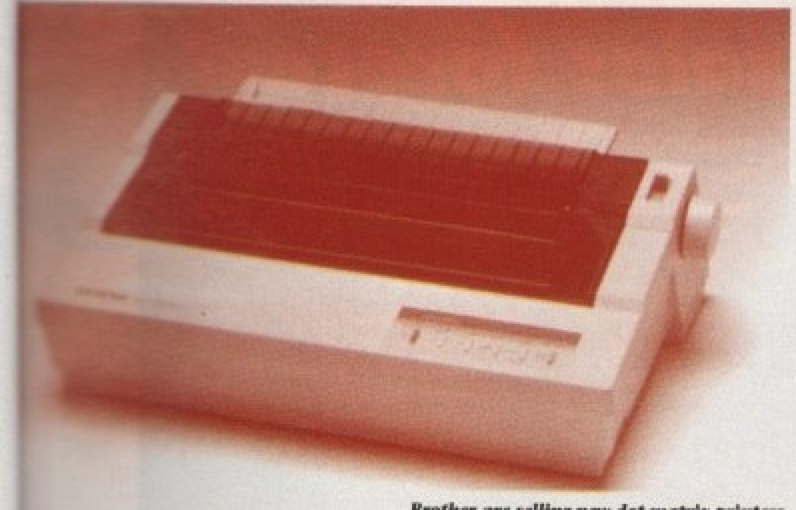
All advertised products over £100 can be purchased on our Creditcharge store card, tailored to your needs. APR 36.8% (variable). Full written details available on request. Subject to status. Finance is for UK mainland residents and BFPO Personal only. You may use any Lombard Creditcharge card for purchase, subject to credit limit.

Delivery. Carriage charges

Please add £3 per order for post+packing. Software, books, cartridges £1.20 per item. Larger items up to 25Kg are sent insured post / courier service. Next working day £6.50. Orders over £150 not sent by courier add £5. Special Saturday delivery can be arranged. All orders recieved by 4:30pm will be dispatched same day subject to availability, or unless otherwise instructed, i.e. Birthday present, etc. All above UK mainland only. (Export, BFPO, Channel Isles – details on request)

CRYSTAL COMPUTERS

Unit 4, 11a Station Lane, Hornchurch, Essex, RM12 6JL, Tel: 04024 38438, Fax: 04024 44399
Showroom 174 High Street, Hornchurch, Essex.



Brother are selling new dot matrix printers with a one-year on-site warranty

Call out for printer duo

TWO new dot matrix printers from Brother are covered by a manufacturer's one year on site warranty, an unusual feature for dot matrixes.

The 9-pin 1309 and 24-pin 1324 models have multiple paper paths, paper parking and push and pull tractors. They can handle multi-part forms and have 8K buffers.

The Brother 1309, costing £174, has a print speed of 216 characters per second in draft mode and 45cps when printing in near letter quality mode. The 1324 also has a draft mode print speed of 216cps and in letter quality mode the £229 printer operates at 72cps. Both are Epson compatible.

More information from Action Computer Supplies (0800 333 333).

New Scala shown

IMPROVEMENTS to presentations, multimedia and video software Scala were shown recently at the Amiga '91 show in Cologne.

New transitions found in version two of Digital Vision's package include stretching pictures on to the screen, flipping, flowing, rolling and pushing. Messages can also scroll horizontally across the screen.

Slide Sorter gives users the ability to visualise scripts they are working on by miniaturising the pictures in presentations, enabling them to be shuffled about.

Previously silent, it now has support for sound and music which can be timed with every transistion, button press, animation or as standalone events.

Animation now operates directly from disk as it is played, making it possible to run sequences much larger than the size of memory. Due for release in February from Silica Systems (081-309 1111) its price remains to be fixed.

Scala's expensive sister, InfoChannel, has also been revised. Running on a satellite computer version 3.1 can repeat presentations automatically on many machines and has a new diary enabling sequences be stored until any future date and time.

This specialist product is only available from Digital Vision who can be contacted in the UK on 0920 444294.

Rewards for pirate evidence

PEOPLE who give information leading to the conviction of software pirates have been promised a reward from industry watchdog ELSPA (European Leisure Software Publishers Association).

The pledge comes after Salford-based Pick 'n' Choose were fined £19,600 and had to forfeit goods worth £16,500 as a result of a concerned computer user helping Trading Standards officers take the firm to court.

Mr Wallace from Fulwood, Lancashire, was rewarded with £500 after he provided evidence including a test buy of pirated software.

ELSPA say the case created greater understanding about software piracy among Trading Standards officers which, they say, is a major step forward for the anti-piracy campaign conducted by FAST and ELSPA.

"We are pleased to pay Mr Wallace the reward, which is fully justified given the co-operation and help he provided in obtaining the conviction," ELSPA's General Secretary Roger Bennett said.

"Anyone supplying information about piracy to ELSPA can claim a reward on conviction of the offender, but obtaining evidence is the key."

Readers with information about software thieves can telephone ELSPA on 0386 830642 and FAST on 0642 660377.

Amiga sales up in Germany

NEARLY 180 firms from around the globe had stands at the Koln Messe for the recent Amiga '91 show and organiser AMI Shows forecast 60,000 visitors were going to pass through the four halls during the three days.

Commodore had little to excite British visitors but it was the first opportunity for most Germans to see the A500 Plus, which had just started shipping.

For existing Amiga owners an English operating system upgrade was on sale for DM199 (about £70). Kickstart version 2 ROMs were bundled with a copy of WorkBench 2.04 on disk and a manual.

At a press conference on the trade day Commodore Germany boss Helmut Jost appeared to be more than satisfied with his company's recent performance.

He claimed that Amiga sales in Germany had jumped by more than 90 per cent in the last year and that by the end of 1991 there would be one million Amigas in the country.

In common with the English division, Jost predicts a massive growth in multimedia in the near future and was selling the Amiga as the most suitable computer for that role.

CDTV featured quite heavily at Cologne and Commodore expected 80 titles would be available for the machine by the end of 1991, most heading from the UK.

A card to give CDTV four million colours and ability to display 22 pictures per second is to be launched soon and the manufacturer forecasts total German sales of little more than 4,000 will increase to 20,000 by the end of the year.

AMI Shows were pleased about the attendance of several English games houses which included Gremlin Graphics, Psygnosis and Virgin Games.

From the serious side of the market there were Rombo, Gasteiner and Pandaal Marketing.

DO YOU KNOW SOMETHING WE DON'T?

Although *Amiga Computing* has scores of contacts in the Amiga world, we need you. If you have some hot news ring John Butters on the news desk now on 0625 878888 or fax to 0625 879966. All information supplied will be treated in the strictest of confidence.

16-Bit Show outgrows Novotel

VISITORS to 1992's first Amiga show, which was to have been held at the Hammersmith Novotel, will be given more space to move around as Westminster Exhibitions (081-569 9768) change the venue for their 5th International 16-Bit Computer Show to the Wembley Exhibition Halls.

Westminster boss Tim Collins commented: "The move to Wembley will give us enough space to avoid the problem of overcrowding and develop the audience further.

"The extra space will also enable us to invite more exhibitors to join us and further the variety of products on display for visitors to try out." He predicts that many firms from overseas will be exhibiting.

Previously the Royal Horticultural Halls and the Novotel have been used for the growing event. If you are planning a visit reserve a date in your diary between February 14 and 16..

Amiga CD-ROM drive on display

DESPITE Commodore failing to have their A690 CD-ROM drive ready in time for the Cologne show, electronics giant Toshiba had their internal and external answer on display.

The XM-3301 drives were available for A500 or A2000s and eventually will be sold in the UK through Highland Electronics (0444 245021). Since, then the UK divisionhave displayed an early version of their drive.

Speed for A3000

G-FORCE is the name of Great Valley Products' latest accelerator, this time a 68040 board for the A3000.

Operating at 28MHz, it can accommodate up to eight megabytes of 32-bit memory and once Motorola chips running at 33MHz become available, G-Force can be upgraded to increase its performance from 22 to 23.3 MIPS.

Unpopulated it costs £2,199 from Silica Systems (081-309 1111).

A500 beats sales forecast

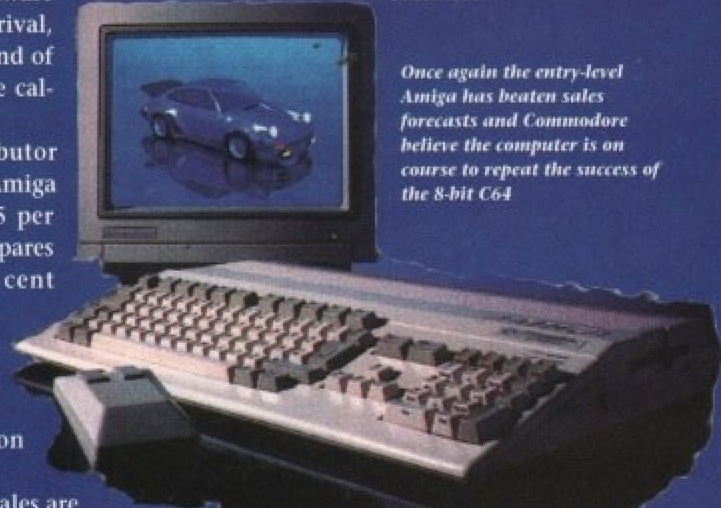
THE A500 outstripped 1991 sales expectations and software sales for the machine are showing continued growth in market share, Commodore have announced.

The computer giant says that Amiga software is now outselling PC software, its nearest rival, by more than 30 per cent and that by the end of 1991 sales will have topped 280,000 for the calendar year.

A survey carried out by leading distributor Leisuresoft for 16-bit software shows the Amiga with a 58 per cent share, the PC with 25 per cent, and the ST with 17 per cent. This compares to 55 per cent, 20 per cent and 25 per cent respectively at the same point last year.

"It's the number one product for the Christmas market," said Commodore's national sales director. "Indeed the Amiga 500 has been outperforming its expectation throughout the whole of 1991.

"The strength of hardware and software sales are testimony to the Amiga's great popularity with the consumer. We only have to look at market indicators to see that the Amiga 500 continues to remain the aspirational product with the broadest and best range of software."



Once again the entry-level Amiga has beaten sales forecasts and Commodore believe the computer is on course to repeat the success of the 8-bit C64



Fun School leaps forward

A CHESHIRE hospital was presented with copies of Fun School 4 recently, at the launch of the latest edition of the award-winning education series from Europress Software (0625 859333).

Freddy the Frog, the main character from the software, leapt into the children's ward at Macclesfield General Hospital to hand over the software.

An Amiga was also donated to the school for sick children after Europress learnt they were the only hospital in Cheshire without computers.

"The first question new children ask when they come into the school room is have you got a computer?" said hospital teacher Alex Westbrook.

"Our budget would not stretch to one but now we have the computer and lots of software that's interesting and educational which is marvellous."

Disks in short supply

A WORLDWIDE shortage of 3.5in floppy disks is leading to price increases of about 2p per disk for firms ordering in bulk. Various excuses for the short supply are circulating the industry. One rumour is that a large disk manufacturer in the Far East has ceased trading and another suggestion is that firms are producing the higher-priced high density versions.

Despite the price rises most firms are able to absorb the extra cost. "We can absorb the increase because we are used to a couple of pence variation," said the head of one company.

"As long as it doesn't go up any more, we can keep prices stable," he added.

Christmas campaign

COMMODORE is spending a £5.5 million on its Christmas advertising campaign for the A500, CDTV and ageing C64.

It features separate press and TV advertisements for each of the products and the Amiga segment carries the line "Brighter by Far". Press adverts appear in consumer and specialist titles.

The computer's television advert follows the story of a boy's depression as he sits in his room on a wet and dreary afternoon and the transformation brought about by his Amiga.

Creative director at agency Evans Hunt Scott Eurocom said: "The Amiga is the best selling home computer and with CDTV we're helping create a totally new market. It's great to have such good products to work on."

Commodore's marketing manager, Dawn Levack, said: "This campaign reflects our position as market leader. It is bold, confident and lets the products speak for themselves."



Dog learns new ticks

RECORD chain HMV are to stock Amiga software in three of their largest stores. Shops in Reading, Southend and London's Oxford Street will be the first to take computer products on board.

The company says if the scheme is successful other branches will follow.

Presentations for A500

A NEW multimedia sequencer for creating presentations and education and entertainment applications is being aimed at A500 owners.

Developer Gold Disk say MediaShow allows users to harness the Amiga's power to play animations, graphics, music and sound.

It loads approaching segments of the animation from disk while playing, giving long and continuous play. Other features include a built-in video titler and a variety of built-in wipes, fades, transitions and disolves.

A timeline user-interface avoids the need for codes and programming and the it supports files from paint, 3D rendering and animation programs. Call Silica Systems on 081-309 1111.

Amiga flying high

GERMAN software house Thalion (010 49 5244 4080) have announced a line up of new flight simulators for the Amiga.

This follows on from the much-awaited A320 Airbus which is expected to be on sale in December and will be followed by a helicopter program based on the small Bolkow 105 in March.

As with the fixed-wing aircraft, it will require pilots to use real navigation charts.

Operating an airline will be the aim of the third package, also due for a March release. The twin-engined Piper Seneca plane has to be flown on specific routes and users will have to remember to set time aside for regular maintenance work.

In Tails of the Golden Goose, the wartime Dakota transport plane is flown in South America, including operations out of up-country airstrips. Again, an airline has to be built and the package has an emphasis on simulation rather than gameplay.

Thalion spokesman Tony King says the setting for the program enables people to make a decision on whether they want to fly legal flights or make extra money by carrying arms and drugs.

However, DC3 fans will have to wait until next September before they can buy the package. Prices are yet to be fixed.

Viewing postponed

DUE to pressure on space, we have held over the regular *Gallery* feture from this issue of *Amiga Computing*. It will return in all its full-colour, bitmapped glory in the February issue, so keep sending in those great works of art!

Just a selection of Merlin's Magical Deals...

NEW PACK INCLUDES: THE SIMPSONS!!!

CARTOON CLASSICS

AMIGA 1Mb. CARTOON CLASSICS PACK

This Great New Pack from Commodore offers everything for ALL THE FAMILY. A Great Computer with some Brilliant Games featuring the latest CARTOON HITS...

AMIGA A500* COMPUTER with FULL 1MB. COMMODORE RAM

(Standard CBM pack complete with Mouse, Leads, Manuals etc)

Plus... Four Fantastic New Software Titles suitable for ALL the family...

THE SIMPSONS (Bart V The Space Mutants) + CAPTAIN PLANET (and The Planeteers) + LEMMINGS (The Best Selling Game of 1991) + DELUXE PAINT III (Art and Animation in one!)

Only... **£364.99**

BUY A SORCERORS PACK TOO!

MONEY BACK

Merlin's WIN YOUR MONEY BACK'... LEAP YEAR 92 COMPETITION — FREE ENTRY!!!

Only from Merlin!

Every time you place an order with Merlin Express you will be sent an entry form asking three simple competition questions, plus your answer to a tie breaker (in not more than 12 words). "The Magic of Merlin is........". All entrants getting the three questions correct will then be judged on their tie break answers, the best ten will be judged on "LEAP YEARS DAY" (29th February 1992) by Amiga Format to decide the winner. And... it will only cost YOU the price of a stamp! Should you win, you will receive a voucher redeemable at Merlin for the total value of the MOST EXPENSIVE SINGLE ITEM* within your order! (eg. If you purchased an Amiga Cartoon Classic Pack and a Philips Monitor you could win vouchers to the value of your Amiga, some £369.99!!!).

WIN UP TO £609.99* 'MONEY BACK'!!!

COMPETITION RULES AND CONDITIONS:

**Offer applies to all advertised goods with the exception of Commodores' Amiga 1500 product range & Star's Laser Printers. You will receive ONE ENTRY per complete order placed between 1st Nov.1991 and 31st Jan.1992. The winner will be decided on 29th Feb. 1992 (Leap Years Day) by Amiga Format Magazine who will act as judges. Their decision will be binding and final; no correspondence will be entered into. The prize will take the form of vouchers redeemable at Merlin for ANY of our range of Amiga or Atari associated products and no cash alternative will be offered. All employees of both Merlin Express and Future Publishing and their families are excluded from entry.*

SORCERORS PACKS

CUSTOMIZE YOUR OWN EXCLUSIVE AMIGA BUNDLE WITH MERLINS UNIQUE SORCERORS PACKS AND...

SAVE £££'s

JUST RIGHT FOR CHRISTMAS AND YOU CHOOSE WHAT TO HAVE...From our simple Pack 1 to our extensive Pack 4 that gives you everything!!! AND...because YOU have a choice, you don't end up with lots of items you don't really want. With some bundles you see advertised you have to take what you get, with Merlin you don't!!!

SORCERORS PACK 1

Quality Mouse Mat, Quality Thick Vinyl Amiga Dust Cover, Quality Guaranteed Joystick and Ten Blank Disks in a Vinyl Disk Library Case

£19.99

SORCERORS PACK 2

10 GREAT GAMES FOR ALL THE FAMILY... Datastorm, Dungeon Quest, E-Motion, Grand Monster Slam, Shufflepuck Cafe, Kid Gloves, Powerplay, RVF Honda, Microprose Soccer, Tower of Babel

£25

SORCERORS PACK 3

EXCLUSIVE TO MERLIN

15 GREAT QUALITY AMIGA TITLES FROM PROFESSIONAL SOFTWARE HOUSES (Not Cheap PD software!) AT A LOW PRICE!!!

FORMULA 1 GRAND PRIX	Brilliant car racing simulation, super fast action driving game!!
SUMMER OLYMPIAD	Become an athlete and compete in track and field to win Gold!!
ELF	One of the best games available for the Amiga that's had rave reviews!!
SAINT & GREAVSIE TRIVIA	'Funny 'ole Game' this! Test your knowledge with Saint & Greavsie!!
TABLE TENNIS	Game, set and match! Great simulation! Look out for the swerve!!
ROLLER COASTER RUMBLER	Plunge a hundred feet in just seconds! Dip & Weave, turn & climb!!
PETER BEARDSLEY SOCCER	Exciting football game! With this one you're bound to score!!
SKIDOO	Antics on ice!! Drive a powered bobsleigh but look out!!
WINTER OLYMPIAD	Winter olympic sports, ski, skate, bob sleigh and lots, lots more!!
CASINO ROULETTE	Go to the casino and break the bank! Or will you loose your shirt!!
FREEDOM	Slaves revolt in a fascinating game of strategy, action & gripping combat!
20000 LEAGUES	World travel graphic adventure on the Nautilus with Professor Aronnax!!
[illegible] SQUAD HEROES	Highly trained squad of men & women work to solve World problems!!
ESPIONAGE	Become a Master Spy in this thrilling game of cunning and strategy!!
LEONARDO	Leonardo plays against police, ghosts & more during his burglary bungles!

£29.95

SORCERORS PACK 4

BUY TWO PACKS! That's Right Packs... 1 + 3 = 4

And all at an incredible Special Merlin Price...

JUST... **£34.99**

TOP SOFTWARE TITLE OFFER

TOP SOFTWARE

ALL THE LATEST GAMES AS THEY'RE RELEASED BUT AT DISCOUNT PRICES WHEN BOUGHT WITH A MERLIN AMIGA PACKAGE...YOU CAN SAVE AGAIN!!

Now you can buy one of the LATEST NEW SOFTWARE RELEASES from the top software companies...AND ALL AT A DISCOUNT!!! For example if you would like to buy a top games title WITH an Amiga from Merlin we will only charge you as follows...

- ANY title with an rrp of £24.99 - YOU PAY JUST £16.99!!!
- ANY title with an rrp of £29.99 - YOU PAY JUST £19.99!!!
- ANY title with an rrp of £34.99 - YOU PAY JUST £22.99!!!

Buy as many GAMES as you like! We can supply any GAME that's published (subject to availability), so call us NOW to enquire about your next order!

Sorcerors Packs and associated offers are only available at the prices shown when purchased with an Amiga (of any type), please ring and ask for prices if you wish to purchase separately from Amigas.

SPECIAL LIMITED PURCHASE TO FIRST 50 CUSTOMERS

1 - KONIX SPEEDKING JOYSTICK
1 - MIG 29 SOVIET FIGHTER
1 - BMX SIMULATOR
1 - PRO TENNIS
1 - TREASURE ISLAND DIZZY

Only... **£19.99** +£1.50 p&p

AMIGA PRINTERS

star — MERLIN EXPRESS ARE A STAR REGISTERED DEALER

NEW STAR LC 20 MONO — £145.99
Replacement for the ever popular LC10, this new printer is 25% FASTER - 150/38cps and has new push button controls. Released for Europe approx 12mnth ago so it's well proven.

LC 200 COLOUR — £199.99
9 Pin Dot Matrix, 240 x 240dpi, 185/40cps

LC 24/200 MONO — £229.99
24 Pin Dot Matrix, 360 x 360dpi, 220/55cps

LC 24/200 COLOUR — £269.99
24 Pin Dot Matrix, 360 x 360dpi, 220/25cps

NEW XB 24/200 COLOUR — £379.99
24 Pin Dot Matrix, 360 x 360dpi, 275/80cps, 29K Buffer, exceptional 4x48 pin dpi super letter quality fonts, 14x24 pin dpi near letter quality fonts. QUALITY PRINT ALL THE WAY!

NEW XB 24/250 Wide Carr. COL. — £454.99
Specification as the XB 24/200 above but with a massive 76K buffer and featuring a wider carriage for those applications that need it.

NEW STARJET SJ-48 Inkjet — £249.99
Near silent printer similar to the BJ10e Bubble but with Epson LQ/IBM Proprinter emulations. 360dpi, 100cps, 28K Buffer. Fantastic Print!!!

LASERPRINTER 4 — £749.99
Fully HP-IIP & Epson compatible, 300dpi, 1Mb. mem.(exp. to 5Mb.) serial/parallel, 14 fonts, RISC processor, with full 1yrs on site maint.

LASERPRINTER 4 STARSCRIPT — £1099.99
As above, but with Stars Postscript, 2Mb Mem, 14+35 fonts, Appletalk Int, 1yrs on site maint.

Printer	LC10/20/200	LC24-200	LC24-10	XB24-200/250
Sht Feeder	£69.99	£69.99	£99.99	£99/£149
Buffer U/G	N/A	£32.99	£54.99	£32.99
Font Cards	N/A	£27.99	£54.99	£27.99

Please state printer model when ordering

FREE FROM MERLIN WITH ALL PRINTERS
Your choice of EITHER a FREE DUST COVER or a FREE 2 PART PRINTER STAND (Except Star Lasers & Citizen PN48) plus you also get a FREE CONNECTING CABLE with EVERY PRINTER PURCHASED!!!

CITIZEN Authorised Dealer PLUS — 2 YEAR — Citizen Printers carry a two year warranty.

120D+ MONO 9 Pin Dot Matrix	£139.99
124D MONO 24 Pin Dot Matrix	£184.99
SWIFT 9 MONO 9 Pin Dot Matrix	£189.99
SWIFT 9 COLOUR 9 Pin Dot Matrix	£219.99
SWIFT 24 MONO — SPECIAL LOW PRICES	£239.99
SWIFT 24 COLOUR — WHILST STOCKS LAST	£259.99

NEW CITIZEN 224 MONO — £219.99
24 Pin Dot Matrix, 360 x 360 dpi, 160/53cps

NEW CITIZEN 224 COLOUR — £249.99
Colour Version of the New 224 Mono above

NEW CITIZEN SWIFT 24E COLOUR — £279.99
24 Pin Dot Matrix, 360 x 360 dpi, 180/60cps

PN 48 'NOTEBOOK' PORTABLE — £269.99

120D+ Cut Sheet Feeder	£74.99
124D, Swift 9/24 Semi-auto Sht.Feeder	£44.99
124D, Swift 9/24 Auto-Sheet Feeder	£94.99
124D, Swift 9/24 Printer Stand	£24.99
124D, Swift 24 - 32K RAM Expansion	£13.99
Font Cards Swift 24 (Any of 6)	£39.99ea

GENUINE RIBBONS

	Mono	5 Pack Mono	Colour	5 Pack Colour
Star LC10/20	£4.75	£19.95	£5.95	£27.95
Star LC200	£6.49	£29.95	£12.49	£59.95
Star LC 24/200	£6.99	£32.99	£12.99	£59.95
Star XB Printers	£6.99	£32.99	£12.99	£59.95

CITIZEN STARTUP PACK

Buy 200 Sheets Continuous A4 Paper, 5 Continuous Envelopes, 100 Continuous Address Labels, 1 Printer Driver Disk, — ONLY £9.95 WITH ANY CITIZEN!

Citizen 120D+/Swift 9 Mono Ribbon	£4.99 each or £22.95 for a 5 Pack
Citizen 124D/Swift 24 Mono Ribbon	£4.99 each or £22.95 for a 5 Pack
Citizen Swift 9 and 24 Colour Ribbon	£16.45 each or £76.95 for a 5 Pack

AMIGA MONITORS

NOW WITH FREE F19 STEALTH FIGHTER (WHILST STOCKS LAST!!)

PHILIPS CM 8833/II COLOUR MONITOR
14" Stereo Colour Monitor with Green Screen Switch AND... FREE LEAD & DUST COVER

Great Value... **£239.99**

12mths. on site maintenance

COMMODORE 1084S 14" Stereo Medium Res. **£269.99**

NEW! PHILIPS TELEVISION/MONITORS

A great alternative to a dedicated monitor that allows you to watch TV programmes too!

BRAND NEW PHILIPS RANGE OF TV SETS WITH ALMOST MONITOR QUALITY OF OUTPUT TOO! CHOOSE FROM THREE MODELS... All with superb quality reproduction when used as a monitor or TV! 2000 Character High Definition FST specifically designed for use as a both a high quality TV and a monitor. Full two year warranty!!!

PHILIPS 3332 - 15" remote control with sleeptimer	£239.95
PHILIPS 2331 - 15", spec as 3332 but with Teletext	£279.95
PHILIPS 2341 - 17" version of the 2331 with Teletext	£339.95

Take £10 off if bought with an Amiga!!!

MONITOR ACCESSORIES:

- Monitor Dust Cover £5.95
- AV7300 TV Tuner £79.95
- Univ.Monitor Stand £12.95

PHILIPS Tilt/Swivel Stands...
- CM8833 MkI £14.95
- NEW! CM8833 MkII £14.95

MORE AMIGAS

AMIGA 0.5Mb. 'STAND ALONE' PACK — £309
Standard Amiga A500* without any software package.

AMIGA 1Mb. 'STAND ALONE PACK' — £349
Std Amiga A500* without software but with Commodores 1Mb. memory

AMIGA CARTOON CLASSICS + CM8833 Mk II MONITOR	Inc. the necessary leads & dust covers for both Amiga & Monitor	
AMIGA CARTOON CLASSICS + CM8833 Mk II MONITOR + STAR LC 200 COLOUR PRINTER	Inc. the necessary leads & dust covers for Amiga, Monitor & Printer	£815

OTHER AMIGA COMBINATION PACKS ALSO AVAILABLE - Phone

AMIGA CLASS OF THE 90's PACK Great education pack! **£469.99**

AMIGA 1500 COMPUTER PACK — NEW 1500

BRAND NEW 1500 Pack - Ideal for both home and business!!! **Central Processing Unit (CPU)...** 1mb. RAM, 2 x 3.5" Floppy Disk Drives, 8 Expansion Slots to take all Amiga 2000 Peripherals. **Keyboard and Mouse...** With Numeric Key Pad, 4 Cursor Keys, 2 Button Amiga Mouse.

Plus some great New Software:
- THE WORKS PLATINUM EDITION: Word Processor, Spreadsheet, & Database
- DELUXE PAINT III - "With Animation!"
- HOME ACCOUNTS - Easy Banking & home finance organiser
- ELF - A Game of Magic, SUPERB!!!
- PUZZNIC - Addictive puzzle game!!!
- TOKI - 300 screens of animated fun!
- GET THE MOST OUT OF YOUR AMIGA: Brilliant reference book for your Amiga

AMIGA 1500 CPU,KEYBOARD (As detailed)	£649.99
AMIGA 1500 (As detailed) + 1084S Monitor	£899.99
AMIGA 1500 (As detailed) + CM8833/II	£885.99

...of course we also stock a wide range of Amiga peripherals & accessories, educational, business & games software plus games consoles from Atari & Sega. Just telephone us for further details on ANYTHING you can't see listed above or see our more comprehensive advert in other Amiga magazines.

COMING SOON... The great new PROTAR range of Hard Disk Drives from 20Mb to 440Mb!!! With up to 2years REPLACEMENT warranty

MERLIN EXPRESS LIMITED

GREAT VALUE, THAT'S THE MAGIC OF MERLIN

STOP PRESS!!!

CDTV — A NEW MEDIA REVOLUTION...

You get... THE NEW CDTV PLAYER with full infra red remote control plus leads to TV and audio system and an introductory 'welcome disc' plus Lemmings & Hutchinsons Encyclopaedia all on CD!!!

Only... **£499.99**

...BUT THEN MERLIN WILL INCLUDE ABSOLUTELY FREE OF CHARGE EITHER... An 88 Key QWERTY Keyboard Worth £49.95! OR A 3.5" Floppy Disk Drive Worth £56.95!

CDTV ACCESSORIES

A range of CDTV accessories are now coming on line, please phone to check availability.

CDTV KEYBOARD	88 Key QWERTY, plugs into the CDTV.	£49.95
CDTV MOUSE	Two way infrared remote control, includes battery saver feature	£39.95
CDTV TRACKBALL	Infrared remote control with sockets for two standard joysticks. Can plug in too!	£79.95
CDTV CADDIES	Spare caddies to take compact discs.	£8.95
CDTV 3.5" DRIVE	Allows loading of compatible Amiga software. Rack mountable. 880K capacity.	£99.95

CDTV 64K & 256K Memory Cards, Genlocking Device, Video Interface Card etc. due to be released soon, phone for full details/prices.

AMIGA ADD ON CD ROM PLAYER AVAILABLE SOON! Phone for latest news! PHONE FOR FULL LISTING OF CDTV TITLES, Both CD's AND 3.5" Disks!

ALL Merlin Prices Include VAT @ 17.5%

ORDERING

Just telephone our 24 Hour Order Hotline using your Access/Visa Card, or, send a cheque/postal order with your requirements details, delivery address & daytime telephone number (cheques need clearance unless issued by a Bank/Building Society for you).

DELIVERY

Small items are despatched by post FREE to all UK Mainland addresses unless otherwise discussed. Hardware is despatched by courier service (up to 25Kg) as follows: NEXT WORKING DAY...add £7.50 to order, TWO WORKING DAYS...add £6, for SPECIAL SATURDAY DELIVERY...add just £12. (Please note courier service applies to MOST UK Mainland addresses).

WARRANTY

Hardware proving faulty within 30 days will be exchanged for NEW. After 30 days and within 12 months from purchase, faults will be rectified by the relevant manufacturers' repair agent and returned to you by courier. Software and small items carry various warranties, please ask for details.

COLLECTION

Merlin Express Limited are predominantly a mail order company but we welcome customers to our trade/collection counter who wish to pick up goods from us. Why not pay us a visit, we are always pleased to help you with your enquiries.

BFPO & EXPORT

Merlin are happy to supply BFPO and export markets for which VAT is normally deductible. Delivery charges vary from UK rates and as products carry UK warranties only, faulty items are to be returned to Merlin by the customer and re-delivery charges will apply.

PLEASE NOTE...

Whilst every effort is made to ensure information in this advert is correct, you should always confirm any offers, prices, availability etc. prior to placing your order. We endeavour to supply goods as shown and will ONLY change details should it be made necessary by our suppliers etc. As our advertising is booked so far in advance Merlin therefore reserve the right to alter product specifications, withdraw any product/offer/service or update prices (and that can be up OR down), without prior notice. Merlin guarantee never to supply anything that has been subject to change without you, the customer being informed of and agreeing to that change. Please ALWAYS confirm details PRIOR to placing your order.
All our currently advertised offers supercede previously advertised offers and goods are NOT supplied on a trial basis. E&OE

NOW OPEN SATURDAYS AND SUNDAYS!!!
Please phone us for exact opening times

MERLIN EXPRESS LIMITED — Great The Magic of Merlin Deals!

MERLIN EXPRESS LIMITED
UNIT C7, THE ROPEWALK INDUSTRIAL CENTRE,
STATION ROAD, ILKESTON, DERBYSHIRE. DE7 5HX.
Telephone: 0602 441442 FAX: 0602 440141
24 HOUR ORDER LINE TELEPHONE: 0602 441442

DURING NOVEMBER & DECEMBER, TELESALES LINES WILL BE OPEN 9AM - 7PM ● MONDAY-FRIDAY

Evesham Micros ● ALL PRICES INCLUDE VAT & DELIVERY ●

Evesham Micros

PRICES INC.DELIVERY & VAT @ 17.5%

Express Courier Delivery : (UK Mainland Only) £6.50 Extra

HERE TODAY ~ HERE TO STAY

Evesham Micros First. First for choice, prices and service. Established for over eight years, with a strong financial status and secure future. Our Computerised Telesales Order Processing investment means fast, efficient service. Well appointed Retail Showrooms with large product range on display. Our huge Customer database, high percentage of repeat custom and personal referrals underlines our popularity. *REMEMBER* - when you need us, we will still be here. Our extensive expansion program means we could eventually be there as well ...

HOW TO ORDER.....

Call us now on **0386 765500**

Lines open Mon-Sat, 9am - 5.30pm
DURING NOVEMBER & DECEMBER, SALES LINES OPEN UNTIL 7.00PM, MONDAY TO FRIDAY.

Send Cheque, Postal Order or ACCESS/VISA card details to:

Evesham Micros Ltd.
Unit 9, St Richards Road
Evesham, Worcs. WR11 6XJ

ACCESS / VISA Cards Welcome

Government, Education & PLC orders welcome
Same day despatch whenever possible
Express Courier delivery (UK Mainland only) £6.50 extra
Please note that 5 working days must be allowed for *cheque* clearance. Immediate clearance on Building Society cheques or Bank Drafts.

Mail Order Fax: **0386-765354**

RETAIL SHOWROOMS

Unit 9 St Richards Road, Evesham
Worcestershire WR11 6XJ
☎ 0386 765180
fax : 0386 765354
Open Mon-Sat., 9.00 - 5.30

5 Glisson Rd, Cambridge CB1 2HA
☎ 0223 323898
fax : 0223 322883
Open Mon-Fri, 9.30-6.00 & Sat, 9.30-5.30
Corporate Sales Dept. ● *IBM dealer*

PLEASE NOTE THE CHANGE OF ADDRESS OF OUR BIRMINGHAM SHOWROOM FROM 4th NOVEMBER

251-255 MOSELEY ROAD,
HIGHGATE, BIRMINGHAM B12 0EA
☎ 021 446 5050
fax : 021 446 5010
Open Mon-Sat., 9.00-5.30 • *Easy Parking*

TECHNICAL SUPPORT ☎ **0386-40303**
Monday to Friday, 10.30 - 4.00

12 MONTHS WARRANTY ON ALL PRODUCTS

All details correct at time of going to press • All goods subject to availability

3½" Track Display Drive

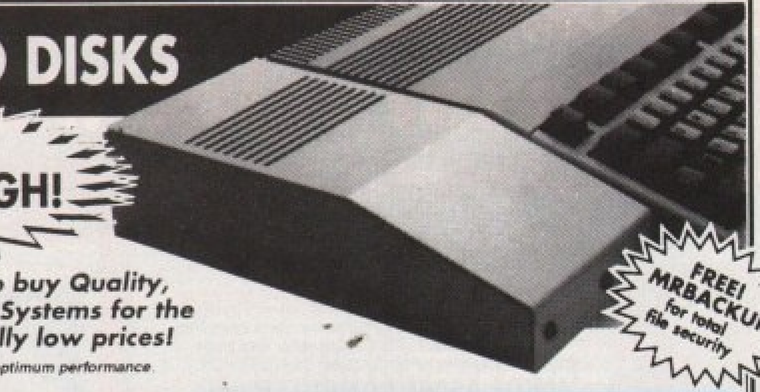


High quality double-sided 3.5" floppy drive offering the full 880K formatted capacity per 3.5" disk. Features a special LED display which accurately shows the current track being accessed during any disk drive activity. *NEW LOW PRICE!*

ONLY £59.99

A500 HARD DISKS

PRICE BREAKTHROUGH!



AT LAST... the chance to buy Quality, High Capacity Hard Disk Systems for the Amiga 500 at realistically low prices!

- **NEC SCSI HARD DISK MECHANISMS** for *optimum performance*. 25ms Access Time & Autoparking
- **Includes its own DEDICATED PSU**. CBM recommends against use of Hard Disks without independent power supply.
- Option for **up to 4MB additional easy RAM EXPANSION** using **'SIMMS'**
- **COOL**.... by popular demand, we have now fitted a Cooling Fan!
- **GAME SWITCH** allows Games to be loaded without disconnection
- Includes **SCSI THROUGHPORT** at rear for further expansion
- **High quality** metal casing, colour matched to the Amiga 500
- **Includes 'MRBACKUP PRO'** as well as Configuration/Format software

40Mb MODEL ONLY £299
100Mb MODEL ONLY £449
2Mb RAM Version: ADD £80 • 4Mb RAM Version: ADD £160

3½" EXTERNAL FLOPPY DRIVES

AMAZING LOW PRICE !
£49.99
including VAT & delivery

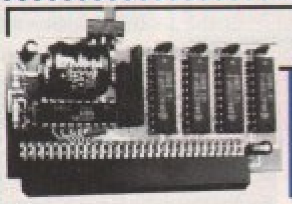


- Very quiet
- Slimline design
- Suits any Amiga
- Cooling Vents
- Sleek, high quality metal casing
- Quality Citizen/Sony drive mechanism
- On / Off switch on rear of drive
- Full 880K Formatted Capacity
- Long reach connection cable

Also available:
5.25" External Drive
40/80 Track Switchable
Only £99.00 inc.VAT/delivery

AMIGA 500 SOLDERLESS RAM UPGRADES

512K RAM/CLOCK UPGRADE



ONLY £27.99 *INC. VAT AND DELIVERY*

ALSO AVAILABLE WITHOUT CLOCK FOR ONLY : **£23.99**

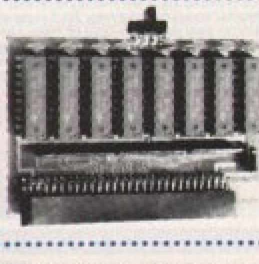
☆ DIRECT REPLACEMENT FOR THE A501 EXPANSION ☆ CONVENIENT ON / OFF MEMORY SWITCH ☆ AUTO-RECHARGING BATTERY BACKED REAL-TIME CLOCK ☆ COMPACT UNIT SIZE : ULTRA-NEAT DESIGN ☆ ONLY 4 LOW POWER FASTRAMS

'A500 PLUS' 1MB RAM UPGRADE

NEW • NEW • NEW • NEW • NEW

THE *FASTEST* AND EASIEST WAY TO UPGRADE YOUR A500+ TO 2MB RAM!

Simply Plugs into trapdoor expansion area ☆ Increases total RAM capacity to 2Mb 'ChipRAM' ☆ RAM On/Off Switch ☆ Compact unit size ☆ Only 8 low power RAM IC's ☆ High reliability

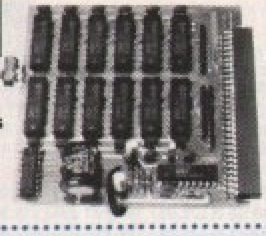


ONLY £49.99

1.5MB RAM BOARD

UPGRADE TO 2MB FOR ONLY £79 !

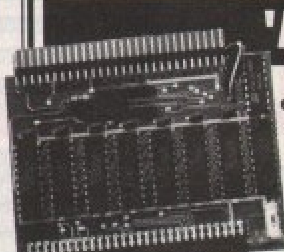
Fully populated board increases total RAM in A500 to 2Mb! ☆ Plugs into trapdoor area, & connects to 'GARY' chip ☆ Includes Battery-Backed Real-Time Clock ☆ Socketed RAM ICs on 512K / 1Mb Versions



Unpopulated RAM board with clock................. £ 34.95
with 512K Installed.....£ 54.95 with 1Mb installed.....£ 69.95
RAM Board with 1.5Mb FASTRAM installed .... £ 79.00

N.B.: The expansion board requires Kickstart 1.3 to operate - Kickstart 1.3 upgrade available from us for £29.95

'MEGABOARD'



With our MEGABOARD, you can further expand your A500's memory to *a total of 2MB* without disposing of your existing 512K upgrade (must be 4 x RAM-chip type, or not exceeding 9cm in length).

CONNECTS TO YOUR 512K RAM UPGRADE TO GIVE 1.5MB

ONLY £54.99

MEGABOARD needs Kickstart 1.3 to operate (Kickstart 1.3 upgrade available from us for £29.95). Installation requires connection to the GARY chip. Easy to follow instructions provided.

DURING NOVEMBER & DECEMBER, TELESALES LINES WILL BE OPEN 9AM - 7PM ● MONDAY-FRIDAY

ZY-FI amplified stereo speakers

REALISE THE TRUE SOUND POTENTIAL OF YOUR AMIGA WITH THIS PAIR OF FULL RANGE SPEAKERS !



Your Amiga produces fine quality hi-fi stereo sound. Enjoy quality stereo sound reproduction *to the full* with this specially designed, great new twin speaker system! Features reflex ported speaker design with 3 separate drivers in each unit, and incorporates a built-in amplifier with adjustable volume control. Runs from PSU (supplied) or from batteries (not included).
Speaker Dimensions 248x93x125mm (HxWxD)

ONLY £39.95

NEW! TOP VALUE 400dpi HANDY SCANNER

QUALITY SCANNING - AT THE RIGHT PRICE !



Representing outstanding value for money, this package combines *top quality* scanning hardware with the distinctively powerful DAATASCAN *PROFESSIONAL* software.
At a genuine 400dpi scanning resolution, this new scanner produces truly superb quality scans. Has a full 105mm scanning width, variable brightness control and 100 / 200 / 300 / 400dpi resolution. **Daatascan Professional** scanning and editing software allows real-time scanning in either line art or in up to 64 simulated grey scales. Provides powerful editing features and excellent compatibility with most DTP and Paint Packages eg. Deluxe Paint 4, Touch-Up.

ONLY £119.99

GOLDEN IMAGE HANDY SCANNER & TOUCH-UP



LIMITED OFFER!! INCLUDES FREE 'DELUXE PAINT 2'

Outstanding quality, excellent value for money - this package includes a 100-400dpi scanner with dither options, plus the amazingly powerful TOUCH-UP software package which drives the scanner directly. Scanner includes viewing window & backlight for accurate scans every time. Scan either line-art or grey images up to 400dpi. Many image enhancement & special effects available from within Touch-Up. A sensible investment for Desktop Publishing work.

ONLY £145.00

TRUEMOUSE



NOW 300dpi RESOLUTION

WE GUARANTEE that this is the smoothest, most responsive and accurate replacement mouse you can buy for the Amiga. Excellent performance, now with a 300dpi resolution. Amazing new price!

£16.99 SATISFACTION GUARANTEED

GOLDEN IMAGE OPTICAL MOUSE Amiga/ST compatible - excellent travel+accuracy assured. NEW LOW PRICE!.. £ 29.00

ROCGEN GENLOCK MK.II



SPECIAL OFFER!! INCLUDES 'HOME TITLER' SOFTWARE

YOU WILL HAVE TO PAY *AT LEAST* TWICE AS MUCH MONEY to obtain a similar level of quality, function and sophistication offered by our new GENLOCK adapter, compatible to all Amigas! Special features include the ability to record graphics & animations on video recorders and overlay graphic and text onto video. Capable of smooth and stable fading and overlaying effects with special tuning knob.

ONLY £99.99

PHILIPS 15" TV/MONITOR



With its dedicated monitor input, this model combines the advantages of a high quality medium resolution colour monitor with the convenience of remote control Teletext TV - at an excellent low price! NEW Version features dark glass screen for improved contrast, plus full range 3-way speaker sound output.

£269.00 Including VAT, delivery & cable

Philips CM8833 Mk.II including cable .... £ 239.00

A590 ADD-ON HARD DRIVES

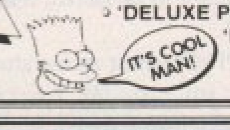
A590 OWNERS! Expand your hard disk storage further with one of our add-on, externally cased SCSI Hard Drives, with 25ms autoparking NEC mechanisms and separate power supply. Plugs into the socket provided on the rear of the A590 unit.

External 40Mb SCSI Drive cased with PSU to directly add-on to the Commodore A590 .... £ 299.00
External 100Mb SCSI Drive cased with PSU .... £ 449.00

AMIGA 500+ SPECIAL OFFERS

A500+ CARTOON CLASSICS PACK

INCLUDES 3 BRILLIANT CHART-TOPPING GAMES !!!



TOP VALUE PACKAGE INCLUDES :
- NEW 'AMIGA 500 PLUS' with 1Mb RAM, 1Mb Drive, Kickstart 2, Workbench 2, TV Modulator, Mouse, etc.
- 'DELUXE PAINT III', PLUS:
  'LEMMINGS' *(top seller!)*
  'CAPTAIN PLANET'
  'BART SIMPSON vs. THE SPACE MUTANTS'

£369.99
AVAILABLE WITH 2ND 3.5" EXTERNAL DRIVE FOR A SPECIAL PRICE OF £419.99

'CARTOON CLASSICS EXTRA' PACK

GAZZA limps to Evesham Micros in our brilliant value Classics Extra Pack!

TOTAL OF 22 MEGA GAMES ! Features Amiga 500+ '*Cartoon Classics*' Pack as detailed above, plus Virus Protector, Mouse Mat, Top Quality Joystick *plus* 19 FABULOUS GAMES including :-

	'GAZZA 2'	'UNDER PRESSURE'	'SUBBUTEO'
	'Battle Squadron'	'NIGEL MANSELL'	'ASTERIX'
'Tracksuit Manager 90'	'Germ Crazy'	'High Steel'	'The Ball Game'
'20,000 Leagues Under The Sea'	'Diet Riot'	'Night Walk'	'Block Alanche'
'Better Dead Than Alien'	'Treasure Trap'	'Lost'N'Maze'	'DiskMan'
'Tank Battle'	*PLUS!* 'Wordwright' wordprocessor and 'Scalc' spreadsheet		

£389.99
AVAILABLE WITH 2ND 3.5" EXTERNAL DRIVE FOR A SPECIAL PRICE OF £439.99

A500 Class of the 90's Pack .... £ 499.00
Class of the 90's plus 3.5" external drive .... £ 549.00
Commodore A590 20Mb Hard Drive .... £ 299.99
A590 512K RAM Upgrade .... £ 29.95
A590 1Mb RAM Upgrade .... £ 59.95
A590 2Mb RAM Upgrade .... £ 99.95
Amiga 1500 Starter Pack (1Mb RAM, 2x3.5", Colour Monitor, 'DPaint 3', 'Platinum Works', 'Home Accounts', 3 x Games, etc) .... £ 979.00

REPLACEMENT AMIGA 500 INTERNAL 3.5" DRIVE KIT



Fully compatible, with 1Mb unformatted capacity. Straightforward installation procedure. Kit includes full fitting instructions.

ONLY £41.99

TRACKBALL



High performance trackball, directly compatible to any Amiga or Atari ST. Plugs into mouse or joystick port. Super-smooth and accurate - you probably won't want to use a mouse again after using this Trackball! Full one-handed control. Top quality opto-mechanical design, giving high speed and accuracy every time. No driver software needed!

ONLY £29.95

REPLACEMENT A500 PSU



Genuine Commodore Amiga A500 type replacement Power Supply Unit. Good quality 'switch mode' type. Super low price!

ONLY £39.95

STEREO SOUND SAMPLER

Offering full compatibility with almost any Amiga audio digitiser package, our Sound Sampler features excellent circuitry, yielding professional results. The main A/D converter gives a digitising resolution of up to 50KHz, with a fast slew rate. Two phono sockets are provided for stereo line input, plus an option for microphone. Adjustable gain is achieved with built-in control knob. Complete with public domain disk containing sound sampling applications / utilities.

ONLY £29.95

MIDI INTERFACE

Our fully compatible, high quality MIDI interface connects directly with the Amiga serial port and provides IN, OUT & THRU ports for good flexibility. Features LED indicators on each port for diagnostic purposes. Superb compact

ONLY £19.95

VIRUS PROTECTOR

Our compact Virus Protector fits easily to the Port of the last disk drive in your Amiga system, protecting all internal and external drives from boot block viruses. Incorporates a switch to enable or disable the protection facility.

ONLY £6.95

AMIGA 1500/2000 UPGRADES

HARD DRIVE / RAM UPGRADE BOARD KIT

Kits include full size hard disk controller cards with unpopulated SIMMS RAM upgrade sockets for fitting up to 8Mb RAM, plus high speed NEC Hard disks

40Mb HARD DRIVE & INTERFACE / RAM CARD ...... £ 349.00
100Mb HARD DRIVE & INTERFACE / RAM CARD ..... £ 499.00

PLEASE NOTE: These are empty RAM sockets - Add £80.00 per 2Mb RAM required.

NEW! COMMODORE C.D.T.V. including 'Lemmings' & 'Hutchinsons Encyclopaedia' Starter Compact Discs .... £ 499.00
VIDI-Amiga video digitiser package inc. VIDI-Chrome .... £ 110.00
VIDI-Chrome Amiga colour frame generation kit from B&W images. £ 16.95
VIDI-RGB colour frame generation kit from B&W images .... £ 64.95
KCS Powerboard Hardware PC Emulator with its own 1Mb of RAM on-board, 512K useable in Amiga mode .... £ 229.99
Kickstart 1.3 Upgrade .... £ 29.95
Amiga 500 Dust Cover .... £ 4.95

PRINTERS
Prices include VAT, delivery and cable

EVESHAM MICROS SPECIAL OFFER !
All STAR Printers include 12 months On-Site Maintenance

Star LC 200 9-Pin Colour, 4 fonts, 180/45cps	£ 209.00
Star LC 24-10 24-Pin, 4 fonts, 180/60cps	£ 209.00
Star LC 24-200 24-Pin, 5 fonts, 200/67cps	£ 249.00
Star LC 24-200C 7 colour version of above	£ 289.00
Automatic Sheet Feeder for above printers (pls state model)	£ 64.95
NEW! Star XB24-200 COLOUR 24-pin, 80 col. power printer	£ 399.99
NEW! Star XB24-250 132 column version of XB24-200	£ 479.99
Olivetti JP-150 **Inkjet** *first class quality - exceptional value*	£ 269.99
Olivetti JP-350 **Inkjet** excellent high speed 300dpi printer	£ 389.99
NEW! Hewlett-Packard Deskjet 500C COLOUR	£ 559.00

NEW! STAR LC20 9-Pin Printer

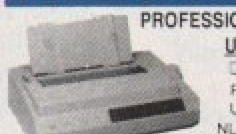
NEW SUCCESSOR TO THE STAR LC-10, WITH MANY FEATURES AND A FASTER PRINT SPEED

Providing superlative paper handling, four excellent NLQ fonts and a new super-fast print speed of 180cps in draft and 44 cps in NLQ, the LC20 appropriately supercedes the phenomenally successful LC10 !

INCLUDES CONNECTION CABLE & 12 MONTHS ON-SITE MAINTENANCE!

ONLY £139.99

SPECIAL!! STAR FR PROFESSIONAL SERIES



PROFESSIONAL SERIES 9-PINs WITH COLOUR UPGRADE *EXTRA SPECIAL OFFER* !!
❑ Versatile and rugged ❑ High Performing Professional Series 9-Pin Printers with Colour Upgrade ❑ 300 cps output in draft, 76 cps in NLQ mode (16 NLQ fonts!!) ❑ Full control from front panel ❑ 31k buffer ❑ *Advanced* Paper Parking

STAR FR-10 (80 column) ONLY £ 199.99
STAR FR-15 (132 column) ONLY £ 249.99
Prices include VAT, Delivery, cable & 1 year on-site warranty

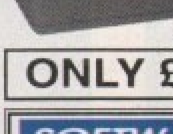
Citizen PRODOT-24 COLOUR



Professional 24-Pin Colour Printer - at a budget price!
❑ Highly versatile letter quality printer ❑ 200 cps output in draft, 66 cps in LQ mode (5 true letter quality fonts) ❑ Full control from front panel ❑ Graphics res 360 x 180dpi ❑ **2 Year Manufacturers Warranty**
Normal RRP: £ 746.35 Inc.VAT

ONLY £269.00

Olivetti DM124C COLOUR



Professional 24-Pin Colour Printer with full 12 Months On-Site Warranty Cover !
❑ 200 cps in draft, 50 cps in LQ mode ❑ 7 Colour output: Graphics res. 360 x 180dpi ❑ Huge 40k buffer ❑ Tractor & Single Sheet Feed ❑ **12 MONTHS ON-SITE WARRANTY**
DM124C Normal RRP: £ 389.95 Inc.VAT

ONLY £269.00 including VAT, delivery and cable

SOFTWARE

Special! Digita Wordworth	£ 99.00
Kind Words 2	£ 37.95
Protext V5	£ 119.95
Digita Home Accounts	£ 23.95
Deluxe Paint 4	£ 79.99
Deluxe Video 3	£ 84.95
MR Backup	£ 29.95
AMOS	£ 37.50
HiSoft Lattice C	£ 199.00
GFA BASIC V3	£ 39.95
GFA BASIC Compiler	£ 34.95
Devpac 2.15	£ 44.95
Disney Animation Studio	£ 69.95

AMIGA COMPUTING NEWSLINE



Monsieur Mangetout will be adding a computer to his diet at the Computer Shopper Show at the beginning of December

Man to eat computer

FRENCHMAN Michel Lotto will be making a meal out of the Computer Shopper Show, where he will attempt to eat a whole computer during the four-day event.

Better known as Monsieur Mangetout, he plans to add the micro to his diet which already includes bicycles, a supermarket trolley, television sets, chandeliers and, when really hungry, light aircraft.

The Computer Shopper Show will be at the Wembley Exhibition Halls on December 5 to 8.

Amiga insurance

INSURANCE is being offered to Amiga owners whose set-ups are worth more than £1,200.

For a yearly fee of about 11 per cent of the equipment's value, Aquarian Public Domain (0703 685006) guarantee a quick response to system failures or loss by more than 50 firms nationwide.

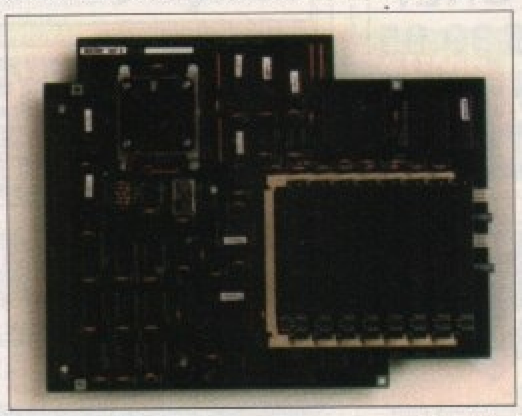
Replacing or repairing software and hardware, the scheme also covers damage caused by viruses.

Progressive running fast

DENVER-based Progressive Peripherals and Software have released ProRAM 3000, a memory expansion for adding between four and 64 megabytes of 32-bit RAM to the A3000.

It installs into the computer's Zorro III slot allowing 24-bit animations with hundreds of frames to be stored, rendered or played back directly. Unpopulated it costs $349.95.

Mercury is PP&S's latest accelerator due for imminent release. It can be populated with up to 32 megabytes of memory and run with either the Motorola 28MHz or 33MHz 68040 chip. Used in conjunction with ProRAM 3000, it enables an A3000 to have more than 100 megabytes of RAM. Price to be finalised.



Mercury is an A3000 accelerator capable of being populated with up to 32 megabytes of RAM. It uses a 68040 processor running at 28MHz but can be upgraded to 33MHz when chips become available

Also being developed by the company is Zeus, an A2000 board which can be used with 28 or 33MHz 68040 processors. Up to 64 megabytes of memory can be added and a SCSI II interface will transfer data at 10 megabytes per second when used with a SCSI II hard drive.

Power Computing (0234 843388) have taken on distribution of Progressive's products in the UK.

A2000 in video system

BUYING video production equipment has become more straightforward with the release of the Commodore Amiga 2000 Personal Video Producer (PVP), an integrated video production system.

Amiga 2000 PVP combines an A2000, 40 megabyte hard disk, A2300 Video Genlock card, Scala software, Deluxe Paint III and a cable.

Said Commodore's Multimedia Director Barry Thurston: "We've taken away all the hard work by pre-installing an A2300 video genlock card and video caption, titling and graphics software.

"The PVP means that slick and professional videos with high quality text displays and special effects are within everyone's grasp. Commodore continue to maintain their position as the prime supplier of professional media solutions."

Price: £1,299.

Teachers get Amiga lessons

TEACHERS needing to buy computers for their school are to be given advice in a new Commodore catalogue which describes Amiga and CDTV solutions for many classes.

Subjects covered include maths, computer and business studies, English and media studies, design and technology, music, art and design, science and specialist areas.

The Maidenhead-based giant have also formed a network of education dealers to help teachers choose the correct setup and a team of consultants are at hand to visit schools to discuss individual requirements.

"The purpose of the Schools Catalogue is to present solutions to those teachers who don't know about and understand information technology," said Commodore's Caroline Steele. Copies of the catalogue can be obtained by telephoning her at Commodore on 0628 770088.



Using Accodata's latest stand, printer users are able to view their work as it is being printed

A new angle on printers

THE latest printer stand from Accodata (0732 885555) has been set at an angle to enable users to check information and work on the printer while documents are being printed. Printer View Stand accepts up to 80 column models and has a paper catch tray. Price: £69.99.

DIARY DATES

7 to 9 February 1992
5th International 16-bit Computer Show
Organiser: Westminster Exhibitions
(081-549 3444)
Venue: Wembley Exhibition Halls
The first post-Christmas show for Amiga owners, and a new venue for this growing event.

7 to 10 April 1992
Which Computer? Show
Organiser: Reed
(081-948 9800)
Venue: National Exhibition Centre, Birmingham
One of the country's top shows, but heavily biased towards the PC

12 to 14 April 1992
European Computer Trade Show
Organiser: Blenheim Online
(081-868 4466)
Venue: Business Design Centre, London
A trade-only show where many of the year's releases can be previewed.

28 to 31 May 1992
Spring Computer Shopper Show
Organiser: Blenheim PEL
(081-868 4466)
Venue: Olympia, London
Promised to attract many Amiga exhibitors.

OVERSEAS EVENTS

24 to 26 January 1992
Benelux Computer '92
Organiser: Interexpo & Media
(010 31 40 464601)
Venue: Eindhoven Trade Fair Building
Very similar to the UK's Computer Shopper Show

3 to 5 April 1992
Amiga Berlin
Organiser: AMI Shows Europe
(010 49 8092 24086)
Venue: AMK Berlin
The first German Amiga show of the year. Two giant halls will be packed with the latest products.

8 to 11 October 1992
Amiga Koln
Organiser: AMI Shows Europe
(010 49 8092 24086)
Venue: Koln Messe
A chance to catch up on the year's developments in the active Amiga world.

● If your company is organising a show relevant to the Amiga and it's not listed, let us know so we can include the information in the diary.

Power Scanner

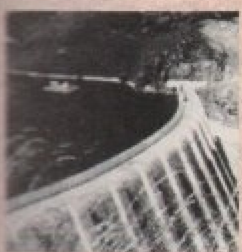


POWER SCANNER FEATURES

100-400 DPI scanning resolutions
64 Greyscales
Thru'port for printer

SOFTWARE

Full screen image editor
Interlace mode on/off
Edit true greyscale & colour images
Fully multi-tasking





ACTUAL AMIGA SCREEN SHOTS

EDITING

Cut rectangle, cut lassoo, crop, flip, rotate, scale, draw, lines, circles, boxes, elipses, freehand, zoom mode

SCANNING

Unique 'True feel' real time scan mode · Know instantly if you are scanning the image too quickly.
Automatic selection of 100-400 DPI
Produce true greyscale images

£99 inc. VAT
GREYSCALE

£239 inc. VAT
COLOUR
AVAILABLE SOON

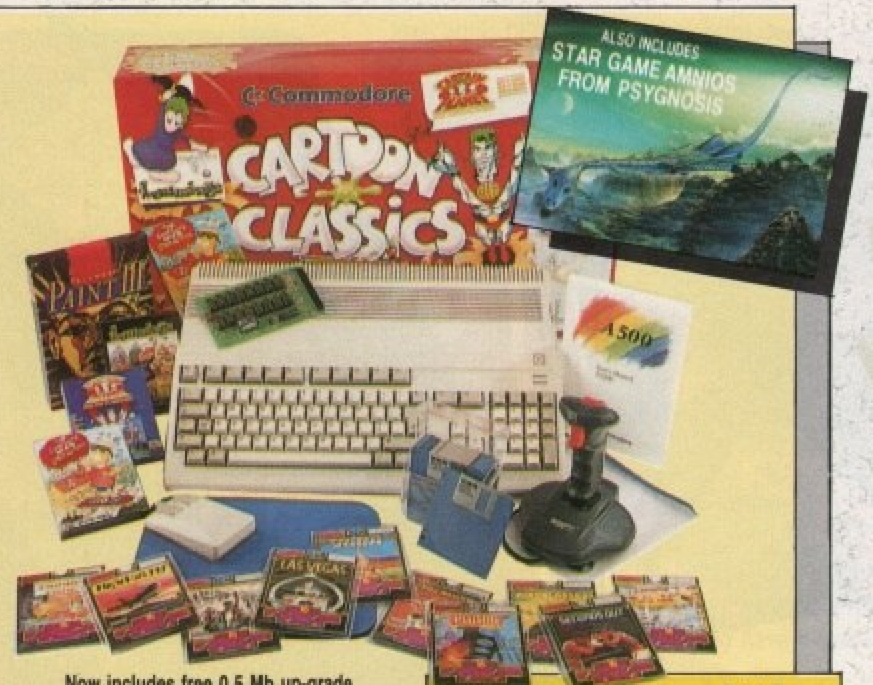
Capture It

Power Computing Ltd., Unit 8, Railton Road, Woburn Road Industrial Estate, Kempston, Bedford MK42 7PN.
Telephone 0234 843388 Fax 0234 840234

Media Direct 0782 208228

FAX US NOW ON 0782 281506

AMIGA 500 PACKS



Now includes free 0.5 Mb up-grade

Excellent value at only **£399.99**

All our Amiga's are UK specification and come complete with the following:—

Amiga Pack 1 *(Classic Pack)*
512K random access memory
Built-in disk drive
4096 colour graphics
4 channel stereo sound
Kickstart 1.3
Workbench 1.3
Extras 1.3 and tutorial disk
Amiga mouse
TV modulator
Power supply unit
A500 keyboard

Bart Simpson
Captain Planet
Deluxe Paint III
and 'game of the year'
Lemmings

We also give you:—
Mouse mat and pocket dust cover, 10 blank disks and box, Quickshot Python, 1 joystick.

Plus
10 more Great Games
Football Manager
Hotshot
Las Vegas
Flight Path 737
Fireblaster
Karting Grand Prix
Thai Boxing
Seconds Out
Mouse Trap
Plutos

Amiga Pack 2
(Classic Pack Plus)
As Pack 1 but also includes the Cumana CAX354 external disk drive — **£454.95**

Amiga Pack 3
(Classic Printer Pack)
As Pack 1 but includes the Star LC200 full colour printer — **£604.95**

Amiga Pack 4
(The Ultimate Pack)
As Pack 1 but includes Star LC200 colour printer plus Philips CM8833/II stereo colour monitor — **£834.95**

Amiga Pack 5
(Educational Pack)
As Pack 1 but includes a selection of educational software:—
Spell Book (ages 4-9)
Things to do with words (ages 5-12)
Things to do with numbers (ages 5-10)
Let's spell at the shops (ages 4-10)
Let's spell at home (ages 4-10)
Let's spell out and about (ages 4-10)
Puzzle Book 1 (5 to adult)
Puzzle Book 2 (5 to adult) — **£499.95**

Amiga Pack 6 *(Gamers Pack)*
As Pack 1 but also includes some of the hottest games:—
F29 Retaliator,
F19 Stealth Fighter,
Lotus Esprit Turbo Challenge,
Swiv (Silkworm II),
Flight of the Intruder. — **£479.95**

PRINTERS

All our printers are UK specification and are covered by a 12 months warranty. All the prices include a printer lead and a tailored dust cover.



Star LC-20 *A popular low cost Mono Printer*
Multiple font options from front panel
Excellent paper handling facilities
Simultaneous, continuous and single sheet stationery
240x240 DPI graphics — **£149.95**

Star LC 24-10
24 Pin Version of LC10
Excellent letter quality print
360x360 DPI graphics
8 resident fonts
Additional font cartridges available — **£214.95**

Star LC200 Colour Printer
An excellent value for money Colour Printer
240 DPI 9 pin colour
Front panel pitch selection
Push/pull tractor feeds
Reverse paper feeds
16K buffer
8 resident fonts
Supplied with colour and mono ribbons
Front panel programmable
Paper park with auto single sheet loading — **£204.95**

Star LC24-200 Mono Printer
80 column dot matrix printer
7K buffer expandable to 39K
10 resident fonts
Paper park with auto single sheet loading
Supplied with mono ribbon
Faster than LC24-10
Extra font cartridges available
Front panel pitch selection
Programmable from front panel — **£249.95**

Star LC24-200 Colour Printer
360 DPI 24 pin colour printer
30K buffer expandable to 62K
10 resident fonts
Front panel pitch selection
Reverse paper feed
Paper park with auto single sheet loading
Supplied with colour and mono ribbons
Front panel programmable
Extra font cartridges available — **£294.9**

Clizen 120D+
A very popular low cost mono printer centronics/RS232/CBM 64 serial. Please specify interface when ordering (two year warranty) — **£144.9**

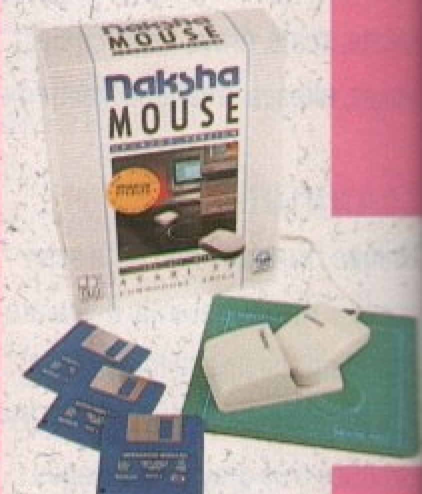
Citizen 124D 24 pin Mono Printer
8K buffer expandable
Push and pull tractor feeds
3 fonts with excellent letter quality
(two year warranty) — **£204.9**

Citizen Swift 9 pin Colour Printer
8 K buffer
240x240 DPI colour graphics
Push and pull tractor feeds
Excellent print quality
(two year warranty) — **£224.9**

Citizen Swift 24 pin Colour Printer
European Printer of the Year 1990
24 pin version of the 9 pin colour printer
360x360 DPI colour graphics
Push and pull tractor feed — **£314.9**

PERIPHERALS

We stock a large range of peripherals, all of the highest quality. If you can't see the one you require please give us a call to see if we stock it.



Mice and Trackballs

Naksha Upgrade Mouse
Amiga/Atari switchable
Simply the best
280 DPI resolution
Ergonomic design
Smooth precise operation
2 years guarantee
Free mouse mat
Free mouse pocket
Now includes Operation Stealth from US Gold. Only — **£22.95**

GOVERNMENT, TRADE AND EDUCATIONAL ORDERS WELCOM

Mega Deals, Multi-Choice

£294.95

£144.95

£204.95

£224.95

£314.95

ALS

£22.95

COM

Squik Mouse
Low cost Amiga/Atari
Replacement mouse
280 DPI resolution
Smooth slick operation.
Only — £14.95



Amiga Trackball by Alfa Data
Switchable between Atari and Amiga with the third button.
This must be the best value trackball available.
At only — £29.95

Scanners

The Naksha Scanner
For the Amiga A500
400 DPI 32 grey shade handheld scanner
Package includes:
Naksha hand scanner
A500 Interface
Power supply unit
Data Scan professional software "The Ultimate Scanner Software".
Only — £89.95

RAM Expansion Boards

Amiga A500 0.5 Mb RAM expansion board
Increases memory to 1 Mb
16 Bit technology
Replacement for A501 expansion
Fit in minutes
On/off switch. — £26.95
Clock Version. — £29.95

Amiga 1.5 Mb RAM expansion
If you need more memory then this board is for you. Adds an extra 1.5 Mb of RAM to your machine giving a total of 2 MEGS. Complete with clock/calendar. Uses the latest technology DRAMS for low power consumption. 12 months guarantee. Requires Kickstart 1.3 or later. Easily fitted into the slot under your A500. Requires no soldering (the cover of your A500 must be removed for fitting the "Plug In" Connector).
Only — £79.95

Fitting service available. Phone for details

Supra RAM 500 RX memory expansion
0.5, 1, 2, 4, or 8 Mb fast RAM for Amiga 500 computers

Easily plugs into A500 expansion port
Amiga bus through port
Easily expandable zero wait states and hidden refresh lets you run larger and more sophisticated programs
Allows creation of large and very fast RAM disks
Test mode and software simplify troubleshooting
On/Off switch

Supraram 500RX 2Mb	£195.00
Supraram 500RX 4Mb	£270.00
Supraram 500RX 8Mb	£420.00

External Disk Drives



Cumana CAX354
Very quiet Slimline design Throughport connector On/off switch on rear Long connecting cable 880K formatted capacity Fits all Amigas.

ONLY £54.95

Supradrive for Amiga A500
Using state of the art technology, these drives use the same amount of power as a floppy disk drive. These drives are shipped formatted and ready to use, so you can simply plug-in your drive, turn on your computer and the system is ready to use. The drive can be configured as autoboot or non autoboot, it can have upto 8Mb of Ram and as many as six SCSI drives can be connected together. The drives also come with "express copy", hard disk backup software, "superboot" and "supertools", file management and formatting programs.

52Mb Hard drive with 0.5Mb Ram	£449.00
52Mb Hard drive with 2Mb Ram	£509.00
80Mb Hard drive with 0.5Mb Ram	£549.00
80Mb Hard drive with 2Mb Ram	£599.00
105Mb Hard drive with 0.5Mb Ram	£599.00
105Mb Hard drive with 2Mb Ram	£659.00

We also stock the range of Supra modems, phone for details.

Zydec External Drive
Very quiet
Slimline design
Quality citizen drive mechanism
On/off switch on rear
Long connecting cable
880K formatted capacity
Fits all Amigas. Only — £49.95



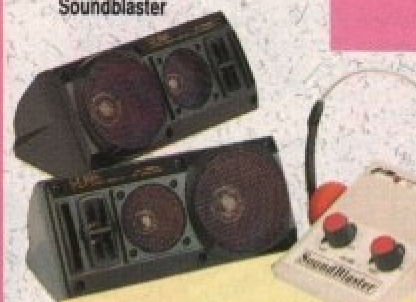
Master Sound — Mono Sound Sampler
A low cost high features sound sampler package includes hardware and software with a host of features to sample and edit music live onto your Amiga. Only — £34.95

Miscellaneous
Midi Master — Midi Interface for the Amiga
Midi in — 3X Midi out and Midi through
Compatible with all leading midi software
Fully OPTO isolated
Includes two free midi cables
Please state A500/1000/2000 when ordering. Only — £26.95

Action Replay MKII by Datel
A whole host of features including Freezeframe, Boot Selector, Virus Detection and much much more. Only — £57.95

Replacement Amiga A500 power supply — £39.95
Replacement internal disk drive for Amiga A500 (original Commodore one — no modification required) — £69.95

Soundblaster



The amazing Soundblaster adds a new dimension to your games. Blasting out stereo sound at 5 watts per channel into two high quality 50 watt 3 way speakers. The pack comes complete with an AC power supply and as an added bonus there is a pair of free stereo headphones.

ONLY £44.95

DISKETTES

Amazing Offers on
3.5" DSDD KAO BULK DISKETTES

25 DSDD 135 tpi	£11.95
50 DSDD 135 tpi	£21.95
75 DSDD 135 tpi	£31.95
100 DSDD 135 tpi	£37.95
200 DSDD 135 tpi	£71.95
500 DSDD 135 tpi	£169.95
1000 DSDD 135 tpi	£309.95

All 3.5" disks are supplied with labels and are 100% error free. 2 for 1 guarantee.

Rainbow Diskettes
Red, green, yellow, orange, black, white. Colours and quantity of your choice.

3.5" DSDD Disks

25 DSDD 135 tpi	£13.75
50 DSDD 135 tpi	£26.45
100 DSDD 135 tpi	£44.95
200 DSDD 135 tpi	£84.95

3.5" DSDD SONY BULK DISKETTES

25 DSDD 135 tpi	£13.45
50 DSDD 135 tpi	£23.95
100 DSDD 135 tpi	£42.95
200 DSDD 135 tpi	£81.95
500 DSDD 135 tpi	£189.95
1000 DSDD 135 tpi	£349.95

Remember!! Remember!! Remember!!
We only supply top quality diskettes. Our 3.5" diskettes are manufactured by KAO and our 5.25" diskettes are manufactured by ATHANA.
We do not sell substandard diskettes from the Far East.

MONITORS



Philips CM8833/II
Stereo Colour Monitor
All our monitors are of UK specification, are covered by a 12 month warranty and come complete with a connecting lead — £244.95

MEDIA DIRECT

Media Direct Computer Supplies Ltd
Unit 3 Railway Enterprise Centre
Shelton New Road, Stoke on Trent
Staffordshire ST4 7SH

PHONE NOW ON 0782 208228

Media Direct 0782 208228

DISKETTE STORAGE BOXES

All our storage boxes come with anti static lid, two keys and dividers where applicable



3.5″ 100 capacity box	£5.95
3.5″ 80 capacity box	£5.45
3.5″ 50 capacity box	£4.95
3.5″ 40 capacity box	£4.45
5.25″ 100 capacity box	£5.95
5.25″ 50 capacity box	£4.95

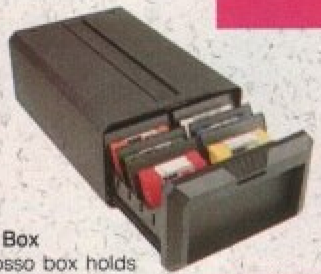
Offer
Deduct £1.00 from above box price if purchasing a quantity of diskettes. (Min 25 disks).



5.25″ or 3.5″ 10 capacity boxes

1	£0.95
5	£4.50
10	£7.95

Stackable Storage Boxes
These boxes are ideal for the person who requires an alternative to the standard style box or who has a large number of disks to store.



Posso Box
The Posso box holds 150 3.5″ diskettes or 70 5.25″ diskettes and can be stacked horizontally or vertically. £16.45

Please state 3.5″ or 5.25″ version when ordering

Bulk Storage Box
Ideal for bulk storage of diskettes, each box can hold upto 250 3.5″ diskettes

1	£22.95
3+	£21.95
5+	£20.95

Banx Box
Stacks horizontally and vertically and can hold upto 90 3.5″ diskettes



1	£9.00
3+	£8.50
5+	£8.00

JOYSTICKS

Speedking Standard	£9.95
Speedking Autofire	£10.95
Speedking Sega Megadrive	£10.95
Navigator	£13.95
Sting Ray Standard	£14.95
Sting Ray Autofire	£15.95
Sting Ray Sega Megadrive	£ .
Manta Ray Standard	£12.95
Manta Ray Autofire	£14.95
Manta Ray Sega Megadrive	£14.95
Zipstick Standard	£11.95
Zipstick Autofire	£13.95



Competition Pro 5000 Black	£11.95
Competition Pro 5000 Clear	£11.95
Competition Pro Glo Extra	£13.95
Competition Pro Extra	£13.95
Competition Pro Star	£13.95
Python 1 Turbo III (QS137F)	£9.95
Python 3 Sega Megadrive	£9.95
Apache 1 (QS131)	£6.95
Flightgrip 1 (QS129F)	£8.95
Maverick 1 (QS138F)	£13.95
Chimera 3 Sega Megadrive (QS140)	TBA
Intruder 1 (QS149)	TBA
Intruder 3 Sega Megadrive (QS150)	TBA
Aviator 1 (QS155)	TBA
Aviator 3 Sega Megadrive (QS156)	TBA

ACCESSORIES

All our accessories are of the highest quality

General

Mouse mat	£2.50
Mouse pocket	£1.50
3.5″ disk drive cleaner	£1.95
5.25″ disk drive cleaner	£1.95
Atari dust cover	£3.95
Amiga dust cover	£3.95
Star LC10 dust cover	£5.95
Star LC24-10 dust cover	£5.95
Star LC200 dust cover	£5.95
Star LC24-200 dust cover	£5.95
2 piece printer stand	£5.95
Tilt 'n' turn monitor stand	£12.95
Monitor plynth	£19.95

Switches and Cables

Monitor Cables

Amiga to CBM 1084S monitor cable	£9.95
Amiga to Philips CM8833 cable	£9.95
Amiga to scart cable	£9.95
Amiga to Hitachi/Granada 7 pin din	£9.95
Amiga to multisync 15 pin 3 row plug	£9.95
Amiga to multisync 15 pin 3 way socket	£9.95



Data/Printer Cables

Parallel printer cable	£7.95
36 way to 36 way centronics cable	£7.95
25 way D-type male/male cable	£7.95
25 way D-type male/female cable	£7.95
25 way D-type fem/fem cable	£7.95

Data Switches

2 way parallel data switch	£12.95
2 way serial data switch	£12.95
3 way parallel data switch	£17.95
4 way parallel data switch	£22.95

Miscellaneous

Amiga 4 player adapter	£6.95
Atari 4 player adapter	£6.95
Mouse/joystick switcher	£12.95
Mouse/joystick extender cable	£5.95

PRINTER RIBBONS

We stock a large range of ribbons. If you can't see your particular type listed then please phone us for a quote.

Star	1	5
LC10 mono	£2.95	£13.25
LC10 colour	£5.95	£26.75
LC24-10 mono	£4.95	£22.25
LC200 mono	£5.50	£24.75
LC200 colour	£10.95	£49.25
LC24-200 mono	£4.95	£22.25
LC24-200 colour	£11.95	£53.75
Citizen 120D Mono	£3.29	£14.80
Citizen Swift 24 mono	£3.29	£14.80
Citizen Swift 9 mono	£3.29	£14.80
Citizen Swift 24 colour	£11.95	£53.75
Citizen Swift 9 colour	£11.95	£53.75

EDUCATIONAL SOFTWARE



Spell Book (ages 4-9)	£17.95
Things to do with words (ages 5-12)	£17.95
Things to do with numbers (ages 5-10)	£17.95
Let's spell at the shops (ages 4-10)	£17.95
Let's spell at home (ages 4-10)	£17.95
Let's spell out and about (ages 4-10)	£17.95
Puzzle Book 1 (ages 5-adult)	£17.95
Puzzle Book 2 (ages 5-adult)	£17.95

BOOKS

We stock a large range of Abacus books suitable for advanced programmers as well as beginners



Advanced system programmers guide	£32.45
Amiga 3D graphics basic programming	£18.45
Amiga basic inside and out	£18.95
Amiga C advanced programmers guide	£32.45
Amiga C for beginners	£18.45
Amiga DOS inside and out	£18.45
Amiga DOS quick reference	£8.95
Amiga desktop video guide	£18.45
Amiga disk drives inside and out	£27.95
Amiga for beginners	£12.95
Amiga machine language	£14.95
Amiga printers inside and out	£32.95
Amiga system programmers guide	£32.95
Best Amiga tricks and tips	£27.45
Making music on the Amiga	£32.95

FAX US NOW ON 0782 281506

Quality and Value Direct to You

CONSOLES



Official UK Version including Altered Beast and Joypad

ONLY £119.95

Sega Game Gear



Official UK Version

ONLY £94.95

Megadrive Software

Afterburner II	£27.95
Altered Beast	£27.95
Alex Kidd	£24.45
Arnold Palmer Golf	£27.95
Arrow Flash	£27.95
Battle Squadron	£31.45
Budocan	£31.45
Columns	£24.45
Crackdown	£27.95
Cyberball	£27.95
Dick Tracey	£31.45
Dynamite Duke	£27.95
Eswat	£27.95
Forgotten Worlds	£27.95
Gain Ground	£27.95
Ghostbusters	£27.95
Ghouls 'n' Ghosts	£35.45
Golden Axe	£27.95
Herzog Zwe	£27.95
James Pond	£31.45
JB Douglas Boxing	£27.95
John Madden U.S. Football	£31.45
Last Battle	£27.95
Mickey Mouse	£31.45
Monster Lair (Wonderboy III)	£27.95
Moonwalker	£27.95
Mystic Defender	£27.95
PGA Golf Tour	£31.45
Phantasy Star II	£46.95
Populus	£31.45
Rambo III	£24.45
Revenge of Shinobi	£27.95
Shadow Dancer	£27.95
Sonic the Hedgehog	TBA
Space Harrier II	£27.95
Strider	£34.95
Super Hang On	£27.95
Super League Baseball	£27.95
Super Monaco G.P.	£27.95
Super Real Basketball	£27.95
Super Thunderblade	£27.95
Sword of Sodan	£31.45
Sword of Vermillion	£39.45
Thunderforce II	£27.95
Twin Hawk	£27.95
World Cup Italia '90	£24.45
Zany Golf	£31.45
Zoom	£24.45
Fantasia	TBA
Spiderman	£31.45

Megadrive Accessories

Arcade power stick	£32.95
Audio/video cable	£6.95
Control pad	£12.95
Power base converter	£27.95

Game Gear Software

Columns	£16.95
Pengo	£16.95
Psychic World	£16.95
Putter Golf	£16.95
Super Monaco G.P.	£16.95
Wonder Boy	£16.95
Woody Pop	£16.95
Dragon Crystal	£19.95
Donald Duck	£19.95
G. Loc	£19.95
Golden Axe	£19.95
Mickey Mouse	£19.95
Ninja Gaiden	£19.95
Outrun	£19.95
Space Harrier	£19.95
Shinobi	£19.95
Baseball	TBA
Frogger	TBA
Joe Montanna Football	TBA
Kinetic Connection	TBA
Talot	TBA

Game Gear Accessories

AC mains adaptor	TBA
AV cable	TBA
Car lighter adaptor	TBA
Game Gear to Game Gear cable	TBA
Game Gear TV tuner	TBA
Rechargable battery pack	TBA



Atari Lynx

Atari Lynx Console with mains adaptor and California Games	£119.95
Atari Lynx Console with mains adaptor	£94.95
Atari Lynx Console	£74.95

Atari Lynx Software

A.P.B.	£23.95
Blockout	£23.95
Blue Lightening	£23.95
California Games	£23.95
Chess Challenge	£23.95
Chips Challenge	£23.95
Electrocop	£23.95
Gates of Zendocon	£23.95
Gauntlet III	£27.95
Klax	£23.95
MS Pacman	£23.95
Ninja Gaiden	£23.95
Pacland	£23.95
Paperboy	£23.95
Rampage	£27.95
Road Blasters	£23.95
Robo Squash	£23.95
Rygar	£23.95
Shanghai	£23.95
Slime World	£23.95
Turbo Sub	£23.95
Warbirds	£23.95
Xenophobe	£23.95
Zaylor Mercenary	£23.95

Atari Lynx Accessories

Car Lighter Adaptor	£9.95
Sun Screen	£6.95
Carry Pouch	£9.95
Kit Bag	£14.95
Mains Adaptor	£12.95

It's not possible to list all Console Software as we hold large stocks. Please ring for latest releases and prices.

THIS MONTHS SPECIALS

OFFER 1
CUMANA EXT. DRIVE PLUS 512K RAM EXP.
~~£86.90~~ £84.95

OFFER 2
ACCESSORY PACK
MOUSE MAT, MOUSE POCKET, DISK CLEANING KIT, DUST COVER
~~£9.90~~ £7.99

OFFER 3
CUMANA EXT. DRIVE PLUS XCOPY PRO
~~£94.90~~ £89.95

OFFER 4
CUMANA EXT. DRIVE PLUS BLIT-A-COPY
~~£91.95~~ £89.95

OFFER 5
200 3.5" DSDD + 2 100 CAP BOXES
~~£79.95~~ £67.95

HOW TO ORDER

☎ 0782 208228

✉ BY POST

Make cheques and postal orders Payable to MEDIA DIRECT. Please send this together with your name and address, daytime telephone number if possible and your order requirements, to:—

MEDIA DIRECT COMPUTER SUPPLIES LIMITED
DEPARTMENT 65029
UNIT 3, RAILWAY ENTERPRISE CENTRE
SHELTON NEW ROAD, STOKE ON TRENT
STAFFORDSHIRE ST4 7SH

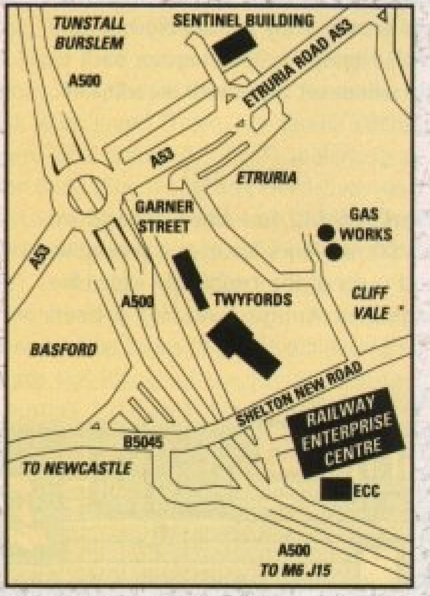
FAX: 0782 281506

Carriage charges
Please add £3.35 per order for postage and packing.
£5.00 for orders over £150.00
Software and cartridges £1.25 per item
Guaranteed TWO Day delivery £6.95
Guaranteed NEXT Day delivery £9.00

Remember!!! Remember!!! Remember!!!
Media Direct are a well established company with a reputation for its quality and service. A point to consider before purchasing your computer goods. So why not buy from us and put our reputation to the test.

All stocks, offers are subject to availability and to being the latest advertised packs and prices.
(Pack details may vary from time to time) E&OE

HOW TO FIND US



Come and visit our showroom where these and many other products are on display.

MEDIA DIRECT

Media Direct Computer Supplies Ltd
Unit 3 Railway Enterprise Centre
Shelton New Road, Stoke on Trent
Staffordshire ST4 7SH

PHONE NOW ON 0782 208228

GOVERNMENT, TRADE AND EDUCATIONAL ORDERS WELCOME

Get. serious

The A500 now has more plus points than ever – Stevie Kennedy reports

The Amiga 500 is probably the most popular home computer of all time in Britain – let's forget the Speccie for a moment – and one of the most popular worldwide. In terms of relevancy in the mass market, then, the A500 is a much more serious contender than the more expensive and less common A2000 and A3000. When, therefore, Commodore takes the A500 and gives it a course of radical bodybuilding and plastic surgery, the market better watch out.

Since rumours started to circulate last year about a possible UK release of an A500 with one meg and a Fatter Agnus built in, there was enough excitement to raise even Roger Moore's cardboard eyebrows, even though this upgrade would have been of fairly minor proportions. Pundits spoke of a projected A600, and a UK version of the 500 Professional then selling in the US. What we eventually got, after all the speculation, was a major step forward for the A500.

Skin deeper

The improvements can be summed up in one deceptively bland sounding sentence. WorkBench 2.04, Kickstart release 2, the Enhanced Chip Set, and 1Mb of chip RAM on board. So much, so boring. I mean, who but fact fans gives a damn for all that techie tripe?

Think again. The improvements offered by the Plus, both hardware and software, are solid and practical. When I boot up my Plus in the morning and cast an eye over the 1.3 machine sitting next to my desk, it takes a cold shower and several deftly applied blows with a chilled teaspoon to bring me back to my senses. Let's start with the software.

Two up

WorkBench 2 has been around on A3000 machines for over a year now, and users of the cripplingly expensive high-end Amiga have long been delighting in its extra features. Now, however, purchasers of seemingly innocuous Cartoon Classics bundles can enjoy on their 500 Plus what has to be one of the world's best operating systems for machines in the Amiga bracket.

At first glance, the improvements over 1.3 can often be small and well hidden enough to make you think 2.04 is no more than a cosmetic upgrade.

Cosmetic

There are few major changes, as WorkBench was already fairly well developed, but if you look under the surface there is a huge list of tweaks and twiddles which, when taken together, render the system a great deal more friendly and powerful.

The most obvious, yet least appealing, change to WorkBench is the use of the purportedly more professional-looking screen colours. Gone is the familiar blue-orange-white-black to be replaced with a very sombre grey-blue-black-white. For some reason, the colour numbers for white and black have also been reversed, so that black icons created on a 1.3 machines appear white on the Plus.

I soon tired of the dreary colour scheme and reverted to the old palette, though by doing so I had to reverse black and white again. Doing this has the advantage of making old icons appear in their proper colours, and the old combination in any case makes for much greater flexibility when designing icons. You try and produce a flesh tone from blue and grey!

The next change to strike the eye is the new set of screen gadgets. The shrink gadget is now a single toggle button which, when clicked, instantly shrinks or expands a window to its minimum and maximum sizes and the forward/backward button now shoves a window all the way backwards or forwards with one click.

The new gadgets make WorkBench operations faster and smoother by doing away with many of the dragging, resizing, and clicking operations you'd previously have had to carry out. Even WorkBench itself is in its own window.

Called backdrop mode, it allows you to shrink WorkBench down to a little box in the corner of the screen, or discard it altogether by clicking on its close gadget.

I found backdrop mode fairly useless and cluttersome, and quickly turned it off before saving prefs to ensure that the machine wouldn't boot up in it again. It's useful if you want to retrieve the memory otherwise used by WorkBench, but most users won't have to resort to it.

When you hold down the right mouse button and try out the new menus, you're in for a few more surprises. The two new features which will prove most useful are Leave Out and New Drawer.

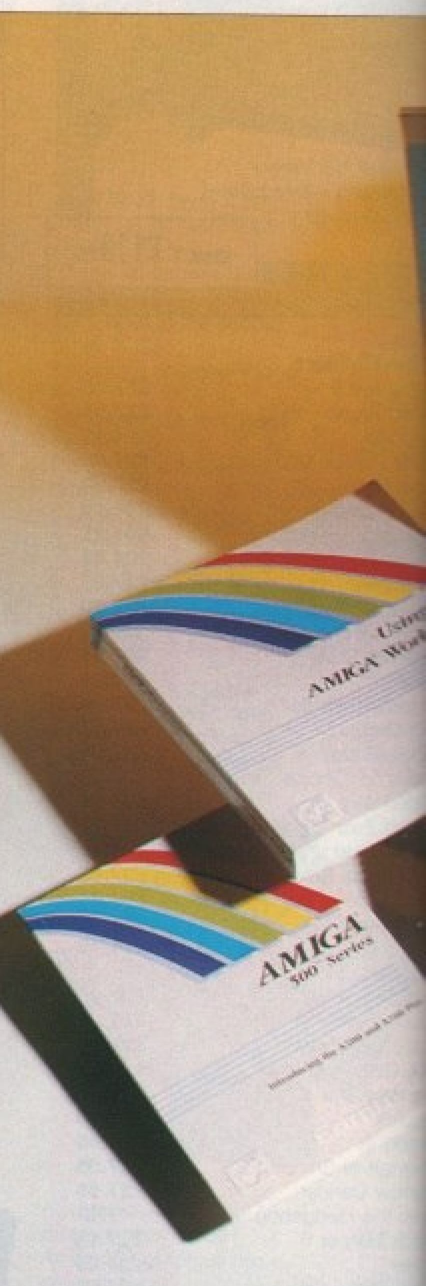
Leave Out has been begging to be included in the Amiga's WorkBench since the machine was first released. The option enables you to select an icon from a disk or drawer window, then choose to leave it out on the WorkBench screen in the same way that Macs leave icons sitting on the desktop. The icon will reappear in its new location even after a reboot, thus saving the user a lot of opening windows and drawers.

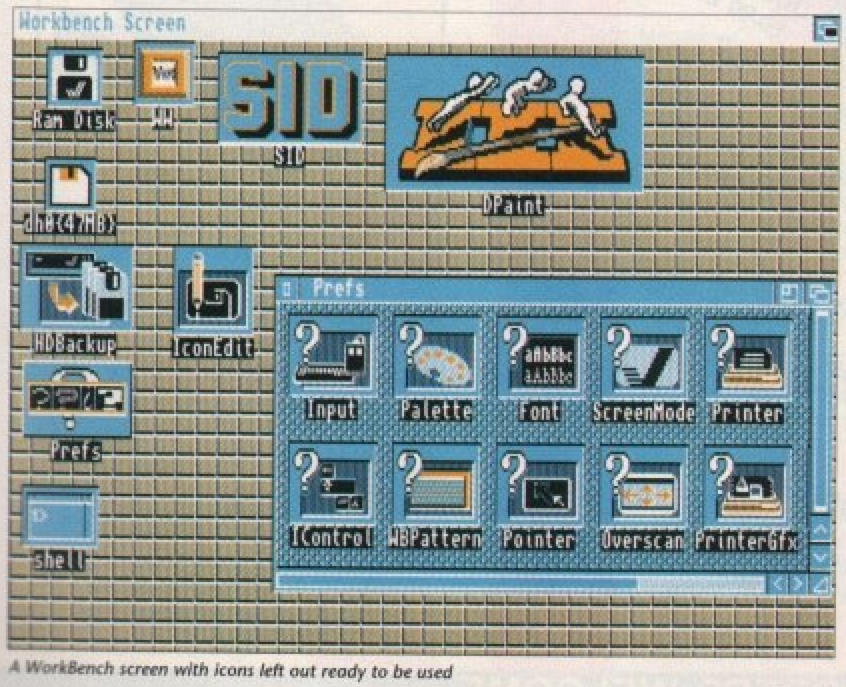
Only the icon is left on the WorkBench screen – the program itself remains in the drawer and WorkBench remembers where it is. This means that programs using special files, such as prefs or config files which have to be in the same directory as the program, continue to run from a left out icon.

The Leave Out (and its partner Put Away) options will largely do away with the need for those PD menu programs currently so popular with hard drive users. Leave all your favourite applications on the WorkBench screen, and you'll cut down dramatically on the time wasted clicking on drawers and so forth.

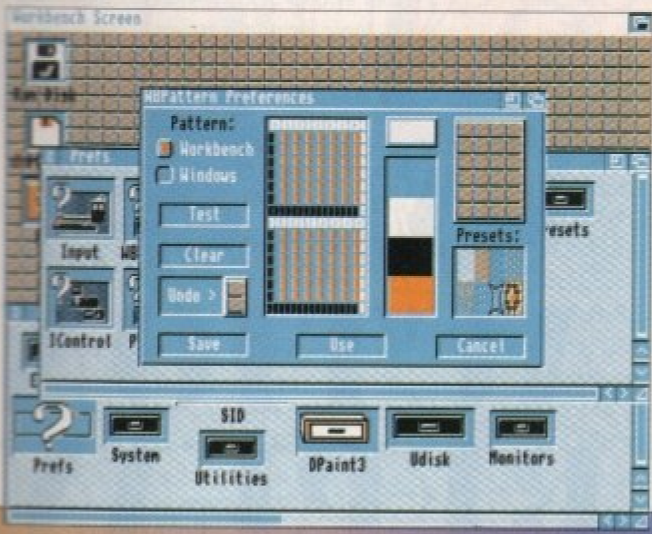
New Drawer is another handy addition. In WorkBench 1.3, users had to

> ...refined to the point where you could make designer earrings out of it

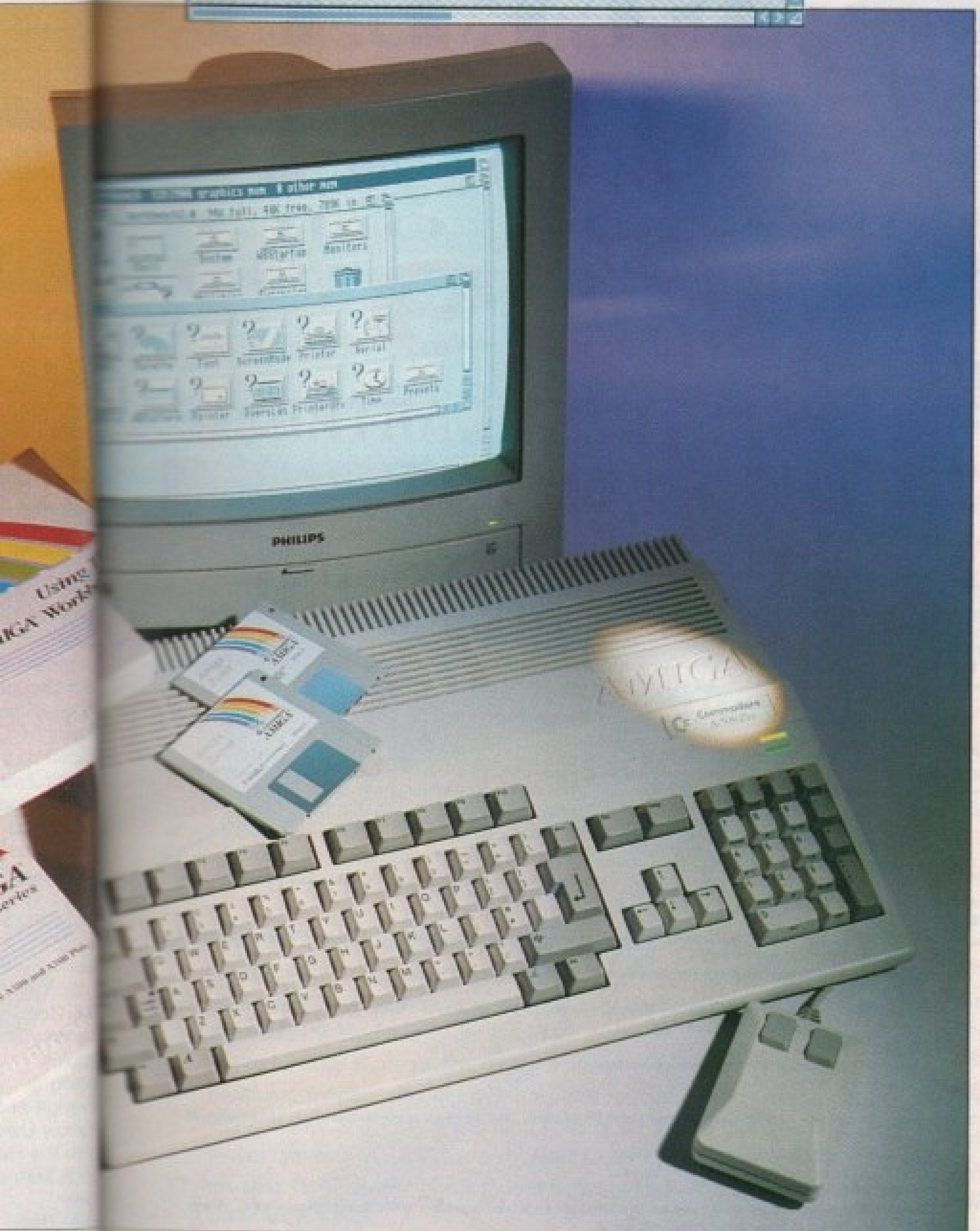




A WorkBench screen with icons left out ready to be used



WorkBench 2.04's pattern editor is great fun



Panic mongers

There are more than a few interest groups around in the business world, and sheep-like flocks of industry pundits, who seem to thrive on gloom and disaster. For these reasons, the initial compatibility problems suffered by the A500 Plus have sometimes been inflated out of proportion since the machine's release.

TRUE: The ECS chips and Kickstart ROM are different enough to render some software incompatible.

FALSE: The problem is so bad that Commodore are "recalling" stocks of the new machine.

TRUE: Many older games won't work with the machine, and in particular those which now constitute the budget game lists.

FALSE: A high proportion of new software won't work with the machine.

TRUE: All major UK software houses are reasonably satisfied with the compatibility of their existing titles, are recoding some which have problems, and are ensuring that all future releases will work perfectly on the Plus.

The failure rate for games software, as estimated by the National Association of Specialist Computer Retailers (NASCR) is 35 to 48 per cent. How they arrived at such a figure is uncertain. They tested a whopping 500 titles, so one must assume they are being unnecessarily pessimistic to allow a 6.5 per cent error either way.

Our own tests, carried out on the first forty titles, old and new which we came across in the Magic Cupboard, suggest a failure rate towards the bottom of the NASCR range, and perhaps slightly lower. As we only tested forty games, we can't offer a definite figure, but the problem certainly seems less serious than you'd think judging from the number of people in the industry wailing and gnashing their teeth.

The compatibility problem will not affect serious users of the new machine – we've yet to find a major utility which won't work on it – nor those who intend to buy the latest games. It will be a problem for those who buy an A500 Plus for a youngster and plan to keep the little gannet happy with a regular supply of budget software. Parents and relatives in this category are advised to ask specifically for an old A500.

Some software companies have plans to put stickers on the packaging of new games to indicate the product's A500 Plus compatibility, but it won't be long before these are redundant. Prospective A500 buyers and those wishing to upgrade should keep in mind that the Plus will be completely replacing the old A500 (at the same price!) from January onwards, and that all new games released from December this year should work perfectly.

The games we tested and which worked: Kick Off 2 (Anco), Terminator 2 (Ocean), Fort Apache (Impressions), Turrican (Rainbow Arts), Armalyte (Thalamus), F16 Combat Pilot (D.I), Tetris (Infogrames), Obitus (Psygnosis), Licence to Kill (Domark), Bionic Commando (Software Creations), Footballer of the Year 2 (Gremlin), Platoon (Ocean), Alien Breed (Team 17), Jimmy White's Snooker (Virgin), Batman (Ocean), Cruise for a Corpse (US Gold), Indiana Jones and the Last Crusade (Lucasfilm), Altered Beast (The Hit Squad), Head Over Heels (The Hit Squad), Beast Busters (Activision), Barbarian (Palace), World Class Leaderboard (Kixx), James Pond 2 – Robocod (Millenium), Starflight 2 (Electronic Arts), Formula 1 Grand Prix (Microprose), Lord of the Rings (Electronic Arts).

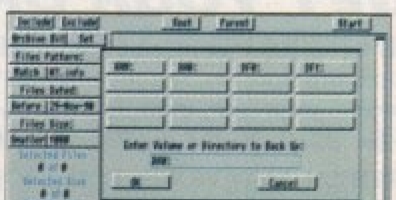
The games we tested and which didn't work: Treasure Island Dizzy (Code Masters), Outrun Europa (US Gold), Heroes of the Lance (S.S.I), Hydra (Domark), Shadow Sorceror (S.S.I.), Escape from the Planet of the Robot Monsters (Domark), Robocop (Ocean), Ghostbusters 2 (Ocean), Power Drift (The Hit Squad), The Final Battle (P.S.S), Disc (Loriciel).

have the useless Empty Drawer icon cluttering up their disk somewhere so they could duplicate and rename it for any new directory they'd created with the MakeDir command. Now all you need to do is select New Drawer and provide a name for the new icon to be displayed onscreen.

What a drag!

To tidy up your 1.3 WorkBench screen, you are forced to use extended selection when you wish to move more than one icon at a time. This involves holding down the Shift key and clicking on every icon. WorkBench 2.04 does away with extended selection by offering a crop of enhanced screen management facilities.

The one you'll all want to try right away is the drag option. By clicking with the left mouse button and dragging a box around a group of icons, you can select the whole lot at once, then hold down the Shift key and move



There's even a hard drive backup utility, designed by EST software

them as a group. The menus contain a couple of other enhancements. For example, you can use Select Contents to highlight every icon in the currently active window, then use Clean Up, Snapshot (icons and window or just the window's size and location), or the new View By option to change the way the window is organised.

The latter, in conjunction with Show All Files, will enable users to view the contents of those elusive system directories such as C:, DEVS: and so on without opening a shell and resorting to DIR or LIST. By double clicking on any hitherto invisible file (and Show All Files gives them each a default icon), a requester is summoned containing the name of the file you just clicked on and a command line.

Let's say you want to view your startup sequence. With Show All Files selected, you can spot the file in the S: directory's window.

Double click on it to bring up the command line with startup-sequence already entered. Now simply type ED with a space in front of the name startup sequence, and your command is carried out as if you had opened shell and typed.

```
ED S:Startup-Sequence
```

This facility will give shellophobic users a window into the Amiga's internals ➤



NEW AMIGA ACTION REPLAY MK III

STILL ONLY £59.99

THE WORLDS MOST POWERFUL FREEZER-UTILITY CARTRIDGE

JUST LOOK AT THE UNMATCHED RANGE OF FEATURES

- **SAVE THE ENTIRE PROGRAM IN MEMORY TO DISK**
  Special compacting techniques enable up to 3 programs to fit on one disk. Now saves directly to disk as Amiga Dos - reloads independently of the cartridge - even transfer to hard drive! Works with up to 2 Megs of Ram - even 1 Meg Chip Mem (Fatter Agnus).
- NEW **SUPER POWERFUL TRAINER MODE -**
  now with DEEP trainer. Even better than before - allows you to generate more or even infinite lives, fuel, ammo. Perfect as a Trainer Mode to get you past that "impossible" level. Easy to use.
- **IMPROVED SPRITE EDITOR**
  The full Sprite Editor allows you to view/modify the whole sprite set including any "attached" sprites. PLUS A RANGE OF IMPROVED FEATURES.
- **VIRUS DETECTION**
  Comprehensive virus detection and removal features to protect your software investment. Works with all presently known viruses.
- NEW **BURST NIBBLER.**
  Now this super disk copier program is built into Action Replay Mk III. Just imagine a superfast, efficient disk copier program at the press of a key - no more waiting.
- **SAVE PICTURES AND MUSIC TO DISK**
  Pictures and sound samples can be saved to disk. Files are saved directly in IFF format suitable for use with all the major graphic and music packages. Samples are displayed as screen waveform.
- NEW **PAL or NTSC MODES SELECTABLE -**
  Useful for removing ugly borders when using NTSC software. (Works only with newer Agnus chips).
- **SLOW MOTION MODE**
  Now you can slow down the action to your own pace. Easily adjustable from full speed to 20% speed. Ideal to help you through the tricky parts!
- NEW **MANY MORE INSTANT CLI COMMANDS -**
  like Rename, Relabel, Copy, etc.
- **RESTART THE PROGRAM**
  Simply press a key and the program will continue where you left off.
- **FULL STATUS REPORTING**
  At the press of a key now you can view the Machine Status, including Fast Ram, Chip Ram, RamDisk, Drive Status, etc.
- **POWERFUL PICTURE EDITOR**
  Now you can manipulate and search for screens throughout memory. Over 50 commands to edit the picture plus unique on screen status "overlay" shows all the information you could ever need to work on screens. No other product comes close to offering such dynamic screen handling of frozen programs!!
- NEW **JOYSTICK HANDLER -**
  allows the user to select Joystick instead of Keypresses - very useful for many keyboard programs.
- **MUSIC SOUND TRACKER**
  With Sound Tracker you can find the complete music in programs , demos,etc. and save them to disk. Saves in format suitable for most track player programs. Works with loads of programs!!
- **AUTOFIRE MANAGER**
  From the Action Replay III preference screen you can now set up autofire from 0 to 100%. Just imagine continuous fire power? Joystick 1 and 2 are set separately for that extra advantage!
- NEW **IMPROVED RAM EXPANSION SUPPORT.**
  Now many more external Ram Expansions will work with all Action Replay III commands.
- **DISKCODER**
  With the new "Diskcoder" option you can now 'tag' your disks with a unique code that will prevent the disk from being loaded by anyone else. "Tagged" disks will only reload when you enter the code. Very useful for security.
- NEW **SET MAP -**
  allows you to Load/Save/Edit a Keymap.
- **PREFERENCES**
  Action Replay III now has screen colour preferences with menu setup. Customise your screens to suit your taste. Very simple to use.
- **DISK MONITOR**
  Invaluable disk monitor - displays disk information in easy to understand format. Full modify/save options.
- NEW **IMPROVED PRINTER SUPPORT -**
  including compressed/small character command.
- **DOS COMMANDS**
  Now you have a selection of DOS commands available at all times - DIR, FORMAT, COPY, DEVICE, etc.
- NEW **FILE REQUESTOR -**
  if you enter a command without a filename, then a file requestor is displayed.
- **DISK COPY**
  Disk Copy at the press of a button - faster than Dos Copy. No need to load Workbench - available at all times.
- NEW **PLUS IMPROVED DEBUGGER COMMANDS -**
  including Mem Watch Points and Trace.
- **BOOT SELECTOR**
  Either DF0 or DF1 can be selected as the boot drive when working with Amiga Dos disks. Very useful to be able to boot from your external drive.

PLUS A MACHINE CODE FREEZER MONITOR WITH EVEN MORE POWER!!

EVEN MORE FEATURES INCLUDING 80 COLUMN DISPLAY AND 2 WAY SCROLLING:-

● Full M68000 Assembler/Disassembler ● Full screen editor ● Load/Save block ● Write String to memory ● Jump to specific address ● Show Ram as text ● Show frozen picture ● Play resident sample ● Show and edit all CPU registers and flag ● Calculator ● Help command ● Full search feature ● Unique Custon Chip Editor allows you to see and modify all chip registers - even write only registers ● Notepad ● Disk handling - show actual track, Disk Sync. pattern etc. ● Dynamic Breakpoint handling ● Show memory as HEX, ASCII, Assembler, Decimal ● Copper Assemble/Disassemble - now with suffix names

REMEMBER AT ALL TIMES YOU ARE INTERROGATING THE PROGRAM IN IT'S "FROZEN" STATE WITH ALL MEMORY AND REGISTERS INTACT -
INVALUABLE FOR THE DE-BUGGER OR JUST THE INQUISITIVE!

HOW TO GET YOUR ORDER FAST!

TELEPHONE [24Hrs] 0782 744707 CREDIT CARD ORDERS
ORDERS NORMALLY DISPATCHED WITHIN 48 Hrs. ALL CHEQUES/POSTAL ORDERS MADE PAYABLE TO....

DATEL Electronics Limited

DATEL ELECTRONICS LTD.

GOVAN ROAD, FENTON INDUSTRIAL ESTATE, FENTON, STOKE-ON-TRENT, ST4 2RS, ENGLAND.
FAX 0782 744292 TECHNICAL/CUSTOMER SERVICE 0782 744324

A/F AAR IIIa

and could encourage more to dive into WorkBench's powerful engine room. If they don't find this easy enough, they can always use the new Execute Command menu option, which will allow shell commands to be issued directly from WorkBench.

Mother of pearl

The CLI is the real jewel at the heart of AmigaDOS, and was greatly enhanced for release 1.3 to be renamed "shell". In WorkBench 2.04, although it was difficult to see how it could be improved further, the shell has been refined to the point where you could happily make designer earrings out of it.

The first thing you'll notice is that it now has a close gadget, so you need never use ENDCLI again.

The real differences, though, are more practical than this. You can, for instance, cut text from one shell window and paste it into another.

The text goes across complete with line feeds, so you have to be careful to avoid issuing a string of commands which make no sense. There are also several new key combinations you can use when editing a command line, though most will be of use only to those who use shell a great deal.

The shell itself is no longer a device you'll need to mount. Its simply referred to as CON:, and the equivalent of 1.3's Shell-Seg handler is incorporated into Kickstart 2.04. There's no need, therefore, to make the shell handler resident or to mount the device.

Once you've opened your shell and started to get down to the nitty-gritty with AmigaDOS, the sheer number of improvements and enhancements begins to make your head spin. For starters, there are the new commands.

The new boys

These are few, but very handy. UNSETENV and UNALIAS, for example, enable the removal of old environment variables and aliases which may no longer be appropriate.

Rather than quit out of your shell, alter its shell-startup file, and restart without the old aliases, you can remove them painlessly.

SETFONT allows the user to choose the screen font in which his or her shell will be displayed. This is ideal for those using interlaced displays, where Topaz 8 becomes discomfortingly small, and even better for those whose vision is impaired in some way.

In conjunction with WorkBench's options to change icon, screen, and system fonts, the SETFONT command makes the Amiga a much more pleasurable tool for people in those groups to use.

Localised

A wonderful new feature for AmigaDOS programmers is the shell's ability to set and use local environment variables. The global kind are still controlled through GETENV and SETENV, but each shell process window can now have its own local variables controlled through SET and GET.

In addition, the way variables are manipulated has been greatly improved by their easy use in commands such as ECHO and EVAL. Where in the past the programmer would have had to use a lot of redirection to shove variable values back and forth, he or she can now refer to them directly using a dollar sign. It is possible, therefore, to use lines such as:

```
ECHO "Your name is $name"
```

where "name" is the variable whose contents you'd like to print. Similarly, EVAL can directly address an environment variable, making calculations within AmigaDOS programs a great deal easier to code.

And more!

The existing AmigaDOS commands, not wanting to be left out, have been given a whole new lease of life in WorkBench 2.04. Not only have many been given additional parameters to enhance their usefulness, but most can also take advantage of the shell's new multi-argument command parsing feature.

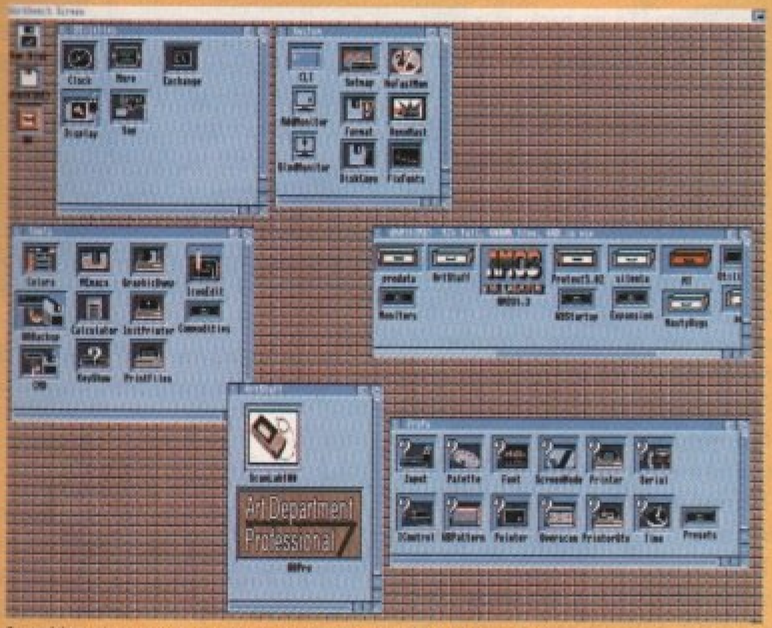
This means that instead of deleting ➤

Really obese Agnus

The Enhanced Chip Set (ECS) consists at the moment of Super Agnus (chip number 8375 or 8372B) and Super Denise (chip number 8373R4). Don't confuse the Fatter Agnus with the Super Agnus. Fattie allows one meg of chip RAM, but Super Agnus the wonder chip as fitted in the 500 Plus will handle anything up to 2 meg, which is four times the limit of the original A500.

The ECS chips should soon be available as an upgrade option to owners of older machines. Fitting them involves opening the machine and prising out the old chips, but if you don't fancy the hassle or have a machine still inside its warranty period, Commodore will be offering an official upgrade service whereby, for a small consideration, their engineers will fit the chips.

The price of the ECS should be in the region of £80 to £100. To use it properly, you'll also need WorkBench 2.04 and the new Kickstart ROM, which should set you back a further £35 for the pair.



Superhires gives you an enormous screen size of 1280 x 512 pixels

Screen scene

The new screen modes available under WorkBench 2.04 and the Enhanced Chip Set boost the Amiga's serious potential by adding several new very high resolution modes. Any of these would be ideal for business uses such as DTP and CAD, especially the Productivity modes.

Productivity is an all-new high resolution mode which will work only with a multisync monitor. However, it does not require a flicker fixer in its non-interlaced mode, and in this it is almost as good as the old Hires interlaced. This makes low-end DTP cheaper by at least £125 (the price of the cheapest and lowest spec flicker fixer), which should boost considerably the Amiga's potential in these areas.

A500 Plus display modes

Graphics Display mode	Monitor Required	Standard Screen Size (Pixels)	Maximum Number of Colours
Lowres	normal	320x256	32
Hires	normal	640x256	16
Hires interlaced	normal	640x512	16
SuperHires	normal	1280x256	4
SuperHires interlaced	normal	1280x512	4
Productivity	multisync	640x480	4
Productivity interlaced	multisync	640x960	4
A2024/10Hz	A2024	1008x1024	4 grey scales
A2024/15Hz	A2024	1008/1024	4 grey scales

Outline fonts

One of the biggest recent talking points concerning WorkBench 2.04 has been its support for Compugraphic(tm) outline fonts. These are scalable fonts, unlike the Amiga's original bitmapped fonts, which can be used in any size without appearing jagged or rough around the edges.

The A500 Plus is supplied with a total of three scalable fonts (Times, Triumvirate, and Letter Gothic), though more could be added with the purchase of CGFonts disks. Their inclusion will enable Amiga users to output much higher quality text to their dot matrix printers, and will provide a standard for software houses to follow when implementing the Compugraphic system in their own packages.

At the moment there is little documentation on WorkBench's CG fonts, and the manuals, with which I was a little disappointed, don't mention them at all. Third party manuals, among them the official AmigaDOS Manual (third edition), are silent on the matter, so one suspects that they were taken by surprise by the last minute addition of scalable fonts.

Either way, Compugraphic font support is an exciting and important feature of the new operating system and it remains to be seen how software companies take advantage of the feature. I was surprised to find no Notepad utility present on the WorkBench 2.04 Extras disk we received. An updated Notepad in combination with CG fonts would be a superb tool with which to generate letters or memos.

Hardware incompatibility?

The spectre of games software incompatibility has been widely debated in industry circles since the Plus was released, but few have so far looked at the problems of hardware incompatibility. Although this won't be as big a problem, it is substantial enough to warrant discussion.

All existing floppy drives, printers, monitors, and external hard drives should be 100 per cent compatible with the Plus. Where problems will be encountered is in the fitting of new equipment to the trapdoor and inside the A500 casing.

The popular 1.5Mb RAM boards which connect to the Gary chip, unless redesigned, are incompatible, as is the ICD AdRAM board and the KCS Powerboard PC emulator. The latter is being redesigned to work with the Plus as I type this, and a new version should be available in December. Likewise, most peripherals manufacturers can be expected to issue RAM boards altered to work with the Plus.

Capacitor too tall!

The reorganised motherboard with its slightly different layout will also cause problems. We know for a fact that most accelerator boards which plug in piggy-back-style to the 68000 slot will physically not fit because capacitor C307 is now 4mm taller than before and the boards can't be properly seated in the 68000 socket because of the obstruction!

Again, the cheap 68000 dual clock speed 14MHz board, will not work. Although working with only certain A500 motherboards in the first place, the board must be connected to a resistor which no longer exists, and will be completely incompatible with the Plus.

We haven't been able to test the various internal hard drives and flicker fixers now available, but as the operating system has been thoroughly rewritten the former could have problems, and the latter may find the new Denise less talkative than the original chip. As I said, we haven't been able to test these in the office, but potential buyers should make sure of compatibility before buying any internal add-ons for the A500 Plus.

➤ three files one at a time, the user can simply type:

```
DELETE file1 file2 file3
```

and get rid of the lot in one go. Multiple arguments can also be used with ASSIGN statements to enable a logical device to access more than one directory.

For example, users of hard drives containing several fonts directories could utilise an ASSIGN such as:

```
ASSIGN FONTS: SYS:FONTS DH1:CGFonts
DH2:PSFonts
```

When a program looked for a font in the FONTS: directory, it would then search the three directories in the order specified by the ASSIGN until it found the one it was looking for.

Wildcard support has also been added to many commands to make them more flexible. CD, for example, can be used with the "match any string" wildcard (#?) to change to a directory with a long name you can't be bothered typing. This means that the command:

```
CD DF1:U#?/POW#?
```

would match DF1:UTILITIES/POWER-PACKER4.0. This is, I'm sure you'll agree, a quicker way to move about.

Wildcards themselves have been given a boost with the introduction of the NOT wildcard. Using the ~ character, the user can set a wildcard to match everything except a certain file or files. One possible use for this is in the setting of special aliases. The statement:

```
ALIAS DIRS "Dir []~(#?.info)"
```

would create a new command to list a drive's contents minus all the .info files.

Also new for the CD command is the ability to change directory without actually using CD! To switch to the LIBS: directory, you'd merely type LIBS: and hit Return. To go back up a directory using the backslash, the process is even easier, as you now have only to hit one key – / – and return to flip up a directory level.

Internal affairs

To speed up AmigaDOS operations even more, Commodore have at last taken the step of making a number of common commands internal. A total of 33 AmigaDOS commands are now coded into the Kickstart ROM and are executed much faster than if they had to be read in off a disk each time they were used.

If you already have an A500 Plus and have booted this month's CoverDisk, you'll have noticed how quickly the ECHO statements in the startup sequence are executed. The welcoming messages blip to the screen many times faster on a Plus because each line uses an ECHO statement which has to be accessed from the CoverDisk every time it is executed on an old A500.

Although it won't be feasible to produce CoverDisks using the Fast File System (FFS) until the 500 Plus becomes the machine owned by a large majority of users, its use would be a boon to disk compilers everywhere. WorkBench 2.04 will now allow the FORMAT command to initialise a floppy disk using FFS, which makes the disk faster in operation and enables the cramming of more data onto it.

A floppy formatted with the Old File System (OFS), used on all Amiga floppies up until release 2, will have approximately 835K of free space. If formatted with the FFS option, however, it offers 879K, a gain of 44K over OFS disks. In addition, disk operations are speeded up.

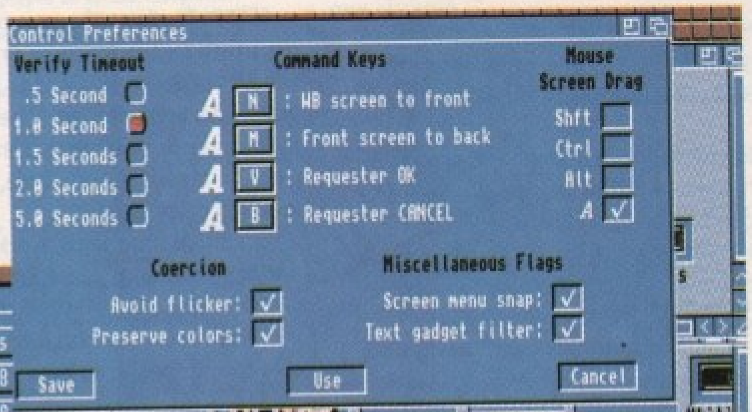
To copy a 370K file to an OFS disk takes 41 seconds. On the same disk reformatted in FFS it takes 36 seconds, and when a full disk is listed or its directory scanned, the benefits of FFS are similarly apparent. The downside is that FFS disks will be unintelligible to an older A500, and that FFS boot blocks are not recognised by virus checkers. However, if you're formatting disks for your own machine only, the FFS option should be used every time.

Conclusion

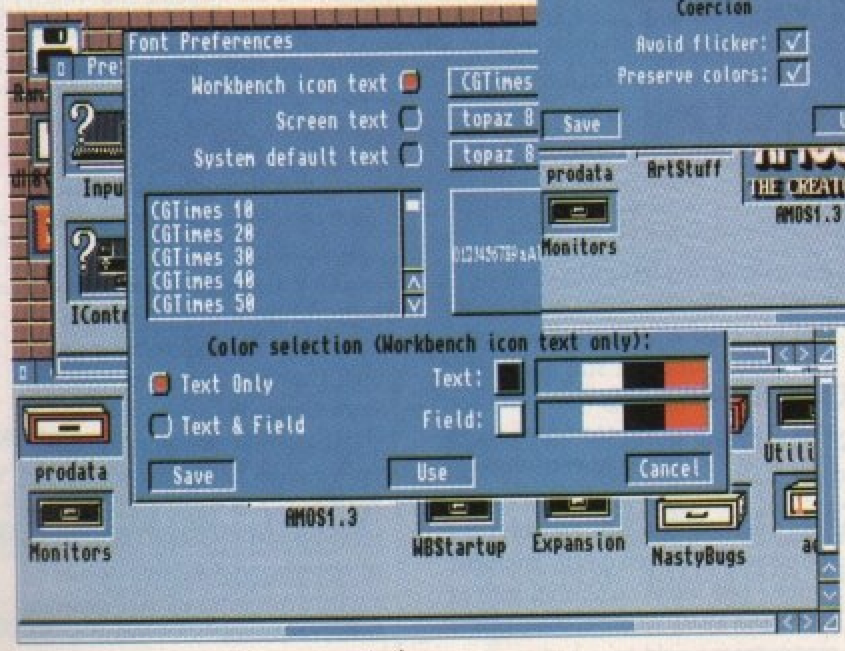
WorkBench 2.04 and Kickstart 2.04 represent a massive improvement in the A500's capabilities. Taken with the Enhanced Chip Set, offering better hardware, more chip memory, and new screen modes, the machine is far superior to its predecessor, the original A500.

Those who use the Amiga purely for games will find little to excite them in the new product, but those who put their Amigas to more productive uses are advised to buy the upgrade kits as soon as they are available, even if to do so would involve selling a member of the family. You can't stand in the way of progress, granny!

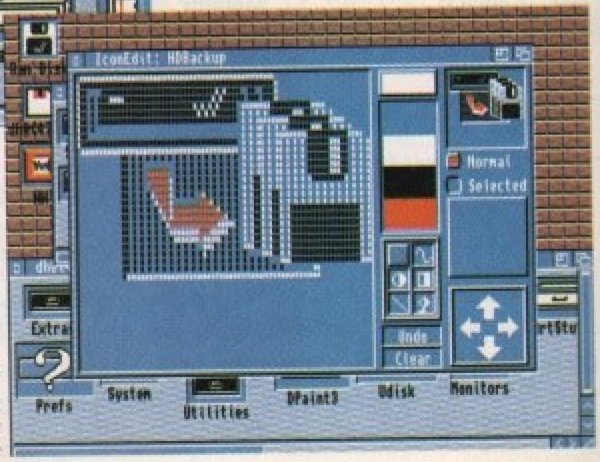
Initial compatibility problems aside, Commodore has to be on a real winner with this excellent machine. AC



You can now control the Intuition hot-keys as well



Select you own font for your icons or screen text!



Design your own icons with the excellent icon editor

ALL PRICES INCLUDE VAT, COURIER DELIVERY



AMIGA GALACTIC PACKS

GALACTIC PACK I

- AMIGA A500 COMPUTER
- WICKED 50 GAMES PACK
  50 great games to get you going!
- QUICKSHOT TURBO MICROSWITCHED JOYSTICK
- HIGH QUALITY MOUSE PAD
- TAILOR MADE DUST COVER

£329.99

GALACTIC PACK III

- Amiga 500 Computer
- Fitted 1/2 Meg upgrade with clock giving you a massive 1 Meg of Ram!
- PC880A Second disk drive featuring anti-click
- Wicked 50 Game Pack
  50 great games to get you going!
- Quickshot Turbo Microswitched Joystick
- High quality mousepad
- Tailor made dust cover

£399.99

GALACTIC PACK II

- AMIGA A500 COMPUTER
- CARTOON CLASSICS
  Bart Simpson vs The Space Mutant
  Lemmings • Captain Planet
  De Luxe Paint III
- OFFICIAL A500 1/2 MEG UPGRADE
- ADDICTIVE HITS
  Rainbow Island • New Zealand Story
  Bubble Bobble
- WICKED 50 GAMES PACK
  50 great games to get you going!
- QUICKSHOT TURBO MICROSWITCHED JOYSTICK
- HIGH QUALITY MOUSE PAD
- TAILOR MADE DUST COVER

£399.99

NEW AMIGA 500P TERMINATOR PACK
exclusive to FUTUREWORLD

- New Amiga 500P with 1Meg Ram
- New Kickstart V.2/Workbench V.2.04
- Terminator 2 Software
- Cartoon Classics Software
- Quickshot Turbo Microswitch Joystick
- High Quality Mousepad
- Tailor made dust cover

£399.99

COMPLETE PERIPHERAL PACKS

PACK 1

PROTAR 512K RAM Upgrade with clock • 40 capacity lockable disk box • 20 3.5" DS/DD disks with labels • 3.5" disk drive cleaner kit

all for just £39.95

PACK 2

PC 880B intelligent disk drive • Protar 512K RAM upgrade with clock • 40 capacity lockable disk box • 20 3.5" DS/DD disks with labels • 3.5" disk drive cleaner kit

all for just £99.95

CONSOLE CORNER

ALL PRICES INCLUDE COURIER DELIVERY & 2 YEAR GUARANTEE

CONSOLE SYSTEMS

Sega Master System	£59.95
Sega Master System Plus	£79.95
Sega Megadrive	£129.95

COLOUR PORTABLES

Atari Lynx	£84.95
Sega Game gear	£99.95

We stock a wide range of software and peripherals for all of the above ring for details

FutureWorld
computers

PLUS A COMPREHENSIVE 2 YEAR GUARANTEE!

PRINTERS

All printers come with connecting cables free of charge

STAR GOLD STAR DEALER	CITIZEN PREMIER SUPER DEALER
LC-20 MONO 9 pin Dot Matrix, 180/45 cps. **£149.95**	120D+ MONO 9 pin Dot Matrix, 120/25 cps. **£149.95**
LC-200 COLOUR 9 pin Dot Matrix, 185/45 cps. **£214.95**	SWIFT COLOUR 9 pin Dot Matrix, 160/40 cps. **£214.95**
LC-24/200 MONO 24pin Dot Matrix, 220/55 cps **£259.95**	124D MONO 24pin Dot Matrix, 144/48 cps **£209.95**
LC-24/200 COLOUR 24 Pin Dot Matrix, 220/55 cps **£309.95**	SWIFT 24 COLOUR 24 Pin Dot Matrix, 160/50 cps. **£319.95**

PRINTER STARTER PACK

• UNIVERSAL PRINTER STAND • QUALITY DUST COVER • 200 SHEETS OF PAPER

All for only £9.95

POWER DISK DRIVE STARTER PACKS

BEGINNERS PACK

- PC880A Disk Drive features Anti-Click, thru port
- Ten 3.5" DS/DD disks
- 40 Capacity lockable disk box
- 3.5" disk drive cleaner kit

£64.95

ADVANCED PACK

- New PC880B Intelligent Drive features Virus hardware, Blitz hardware
- Ten 3.5" DS/DD disks
- 40 Capacity lockable disk box
- 3.5" disk drive cleaner kit

£79.95

STEREO COLOUR MONITORS

PHILIPS 8833/Mk2

£249.95*

*Free F19 Stealth Fighter

CBM 1084S

£269.95*

*Free Silent Service II

ORDERING MADE EASY

BY PHONE
Simply call our Head Office quoting your Access/Visa number on
0234 218060 (5 lines)

BY CALLING PERSONALLY
Simply call into your nearest FutureWorld store where our fully trained personnel will be more than happy to deal with your requirements

BY POST
Make cheques, Building Society drafts or Postal Orders payable
FUTUREWORLD COMPUTERS LTD
UNITS 25-27 SERGEANTS WAY
ELMS INDUSTRIAL ESTATE
BEDFORD MK41 0EH

Please write cheque guarantee card number on reverse of cheque to ensure same day clearance

REMEMBER
ALL PRICES INCLUSIVE OF VAT & COURIER DELIVERY*
*** UK MAINLAND ONLY**

FINANCE
Finance available to suit your specific needs. Written details on request.
Instant credit is available in all FutureWorld stores.

PREMIER GOLD CARD
• 7 day money back guarantee if not completely satisfied
• 30 day exchange for new policy should a fault occur
• 2 year guarantee giving free collection and delivery service should a fault occur
• Exclusive Premier Gold Card with Personal Membership Number entitling you to special offers
• All this for only £19.95 per item purchased

2 YEAR GUARANTEE
For the whole guarantee period, warranty service will be completely free of charge

TECHNICAL SUPPORT/ON SITE ENGINEERS
Being authorised service centres for AMSTRAD, COMMODORE & STAR, we are equipped to deal with the majority of queries

FULL COMPUTERISED ORDERING SYSTEM
This enables our telesales staff to provide up-to-the-minute stock information coupled with efficient dispatch

FULL TESTING PROCEDURE
All computer hardware is tested prior to dispatch maintaining our motto:

Simply the BEST



YOUR NEAREST FutureWorld STORE

BEDFORD
70 High Street Bedford Telephone 0234 217070

NORTHAMPTON
1-7 College Street Northampton Tel: 0604 33996

WELWYN GARDEN CITY
16 Church Road Welwyn Gdn City Tel: 0707 390029

Very serious sequencing

Our resident muso Paul Austin looks at the latest KCS collection

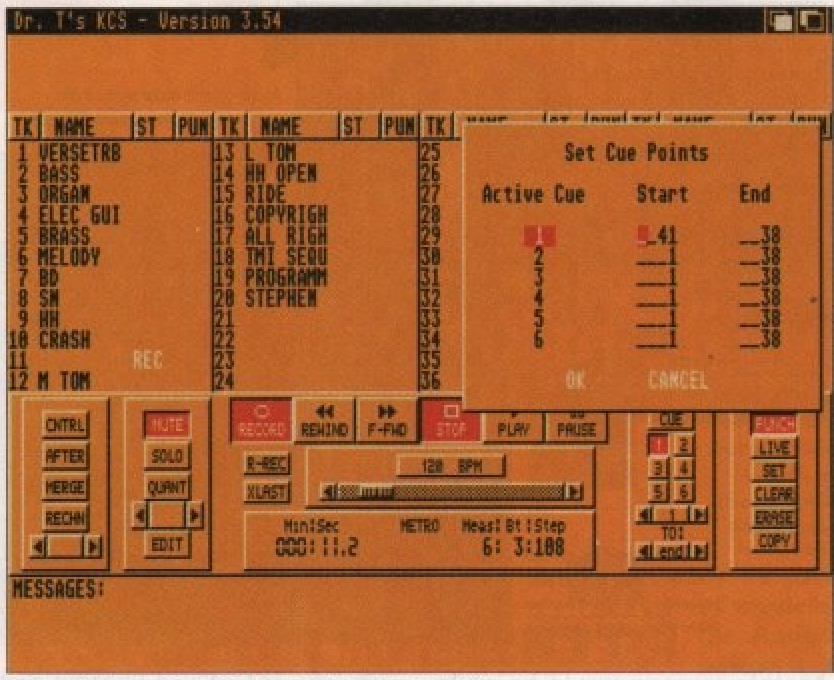
KCS 3.5 is the somewhat less than catchy title of a package challenging for the Amiga's musical throne. It not only has the essential sequencer but a whole range of extras, all of which work together to form a formidable partnership that the opposition is going to find very difficult to beat.

Along with the release of the system comes what is surely the most aggressive marketing campaign yet to hit the Amiga. Not only are the company offering cheap upgrades for existing users but they've also targeted the rest of the industry, by announcing enormous discounts for those of us willing to trade in old packages, no matter what the title.

As you might expect this hasn't won them a lot of friends, but for the average punter with a now derelict copy of MusicX lurking in a disk box it has to be good news.

As you're probably aware, KCS/Dr.T's aren't new to the music business, being long established on the ST and Amiga. As a result you may ask what's so special about what is essentially an upgrade.

In short, it's the scale of enhancement that makes it special. Not only has the sequencing software been improved but huge advances have been made in the system management, with new data sharing and control software allowing numerous elements to be combined.



The parent program in all its glory, adding cues the easy way

What's on offer...

First and foremost comes the KCS 3.5 sequencing package itself. It has all the whistles and bells that you'd expect from a package with a £279 price tag. But on top of its sequencing features comes the ability to work as a platform for the MPE (Multi Program Environment) which we'll look at later.

The sequencer itself boasts two primary modes. The first is the linear or tape deck format which we all know and love, the second being a more flexible Open mode which allows all manner of looping, chaining and multiple sequence combination.

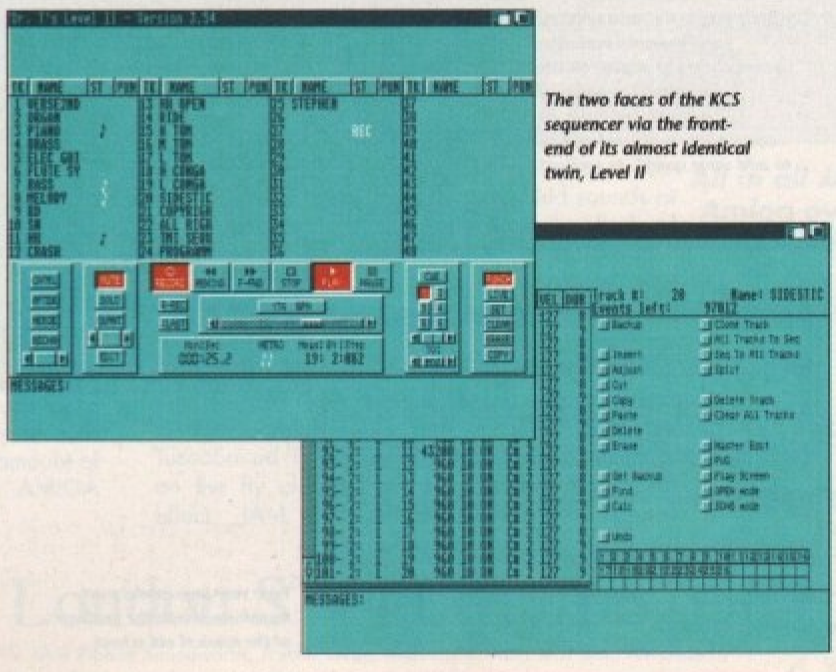
As you might expect, passing data between the two is a simple process and as a result inspirational composition is a good deal easier than with some of its competitors. The usual array of editing functions are on hand within both modes, plus some user friendly options such as muting and definable punch points – all of which can be accessed and defined as the music plays without ruining the output.

Advanced features include old favourites such as transposition and channel reassignment, but there are also more unusual tools such as Invert, which allows either all or part of a sequence to be reversed.

Others include the ability to split sequences by note number, assign them to several channels and expand or compress notes. As is essential, full cut and paste options apply for both individual notes and sections, via the event list editor. Tempo changes can be inserted over either predefined sections or entire sequences.

Sequences can even be delayed with the aid of the play timer – very handy if you're into a bit of DTV.

If you fancy the occasional surprise, the random events option allows predefined elements to be played spontaneously. This can be taken to extremes if applied in Open mode with certain sequences starting, stopping and even muting others.



The two faces of the KCS sequencer via the front-end of its almost identical twin, Level II

Track record

It's time for the boring but essential features list, so let's get it over with. Up to 48 tracks are available with a maximum of 126 separate sequences, all of which support full Midi with measure/beat/step display. It also supports controller chase and an amazingly high 384 PPQN (pulses per quarter note).

Other features include Merge and Rechannelise, a Midi clock and a Song Position Pointer (both in and out). It can both sends and record system-exclusive data, offers independent punch in and out on all tracks. As well as programmable cue in both modes, a simultaneous play and edit option and auto-looping for overdubs are also provided.

Finally, there is a built-in notepad and timing calculator, a play timer to within 1/10th of a second resolution, solid timing better than 70 parts per million, aftertouch, note off velocity filters on record, *and* it's more than happy to feed the dog and collect the kids as well...phew!

On top of this already frightening list come a few less important but pleasant features, such as the improved front-end graphics (which unfortunately still look very reminiscent of the ST). Perhaps more important is the inclusion of extra editing features via the track mode pull down menus.

Level II

As you may have noticed there's no mention of graphic editing, primarily because KCS 3.5 doesn't support it, at least not internally. Instead the MPE is employed to access the Tiger graphic editing program which, of course, is part of the package – as indeed are Quickscore and Automix, but more of those later.

Now this may become a little confusing as Level II is exactly the same as KCS 3.5 but with the addition of two extra modules. The first of these is the Programmable Variation Generator or PVG. As the name suggests, it's used primarily on finished material to add

➤

random and defined variations. You have the choice of 10 edit screens, all of which have a number of variation and editing tools.

The element to be altered can be selected in a huge variety of ways. For example, simple selections such as pitch, duration or volume are obvious, but more subtle choices such as one note's relation to another can also trigger a variation. If you can't be bothered with complex selections, random variations can also be applied.

Now that the target notes are selected, what can it do with them? Well, for a start the PVG could transpose them, shift them in time, copy them to another channel, erase them, double them or even use them as the basis for a new riff.

You could even employ the PVG to search patterns, dynamics or rhythms and use these as the basis for change or as targets for enhancement. All PVG definitions can be stored as presets and combined within macros for later use. Instant inspiration at the click of a button...

The Master Editor is the second addition to the system. Unlike most of the editing tools, this particular module has much more global concerns. Its strengths lie in the editing of large sections or entire sequences. To achieve this, another six screens of editing commands await.

You can start simply with some control filtering and track edits, then build up to pitch mapping and sequence bleeding. As you've probably guessed, both of these new modules aren't the simplest bits of software you'll ever use, but if you're willing to burn a little midnight oil with the manuals, the potential for greatness is definitely there – if perhaps well hidden.

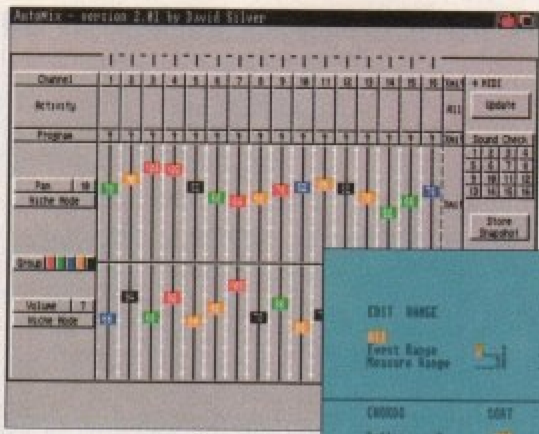
MPE

As mentioned earlier, MPE stands for Multi Program Environment, which sounds suspiciously like a rather fancy title for multitasking. Big news on the ST perhaps, but not really earth-shattering on the Amiga.

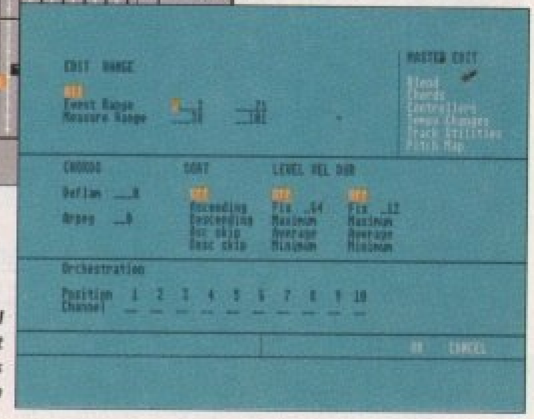
However my initial misgivings were completely unfounded, as the MPE is much more than a revamped version of multitasking. In fact it's more like a form of automatic musical ARexx, which shares all the relevant parts of the music data between the various bits of software within the system.

For example, to start the ball rolling you need a host or platform for MPE which can be either KCS or Level II. Then if you wanted to do some graphic editing, you could load the Tiger software.

This would then appear in the MPE pull down and when selected would bring the Tiger software to the fore, complete with the sequence you were just working on within KCS or Level II.



Mixing your masterpiece the easy way – colour-coded faders, instant mix selection and all without leaving the system



Six pages of global editing commands just waiting to get to grips with your latest creation

Another scenario would be while employing Automix. Again, it could be waiting within the MPE pull down. When you're ready to mix you masterpiece, simply select and it appears – even if your sequence is still playing. Now you can digitally mix your creation while you're still working on it.

When your creation is complete, it's even possible to print out parts of your choice, ready for real musicians to play live – all from within the system, of course. Up to 19 individual programs or modules can use the system, all working together but perhaps more importantly all sharing a common data source.

There are already almost 30 modules available on the ST which will hopefully make their way over to the Amiga. Unfortunately we're in the unusual position of being out-gunned by a lesser machine, but I'm sure that will change.

As you might expect, holding up to 19 programs in memory is a bit beyond the means of an unexpanded A500, so serious users should be looking to beef up their machine to around 2 meg at least, otherwise you'll find the MPE extremely limited. Of course you can still quit and load modules as required but this does defeat the object a little.

Added extras

We've mentioned the big guns such as KCS and Level II, but its perhaps worth recapping some of the other impressive extras, the first of which has to be Automix. This is far and away my favourite addition to the system, as it allows you to mix your entire sequence via onscreen faders, working exactly as their hardware counterparts do.

A colour-coding system allows you to link various tracks together for simultaneous adjustment of both pan and volume controls. To automate things even further, there's the snapshot panel which allows you to capture individual mixer settings and then jump between up to 16 separate setups during a sequence.

Above the snapshot control comes the sound check panel which allows each track within a sequence to play a preset series of notes. This is very useful if you want to do some rough levelling prior to playing the entire sequence.

The output from Automix can be assigned either to the Midi output or alternatively to the input/output of KCS. On top of that its output can directly edit the sequence data within the sequencer itself. No more fiddling with velocity percentages – it's all done for you. Pure bliss.

The next sweetener takes the form of the Tiger graphic editor. Now this certainly isn't the prettiest program in the world but it nevertheless does an impressive job. Its fairly standard array of editing talents are greatly enhanced by the incredibly high 384 PPQN, which has obvious advantages if you're looking for highly accurate editing.

A particularly pleasant touch is the graph section of the editor which allows you to draw in various chances rather than rely on the requesters and figures of most programs. Things such as pitch bend and tempo changes can simply be added as curves which instantly translate into sound via the sequencer.

The final program on offer is Quickscore. This is basically a cut down version of Dr.T's professional score printing software. It's by no means as powerful as its bigger brother, but if you're looking for a quick and simple way to get you creations on paper, it's ideal.

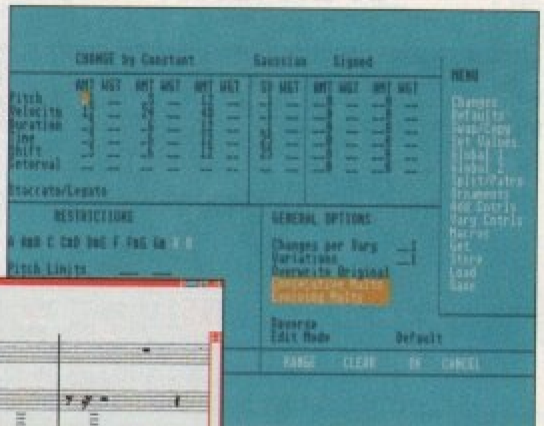
Ugliest

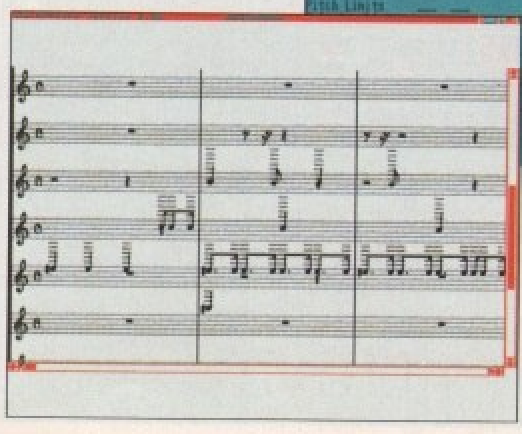
As you've probably noticed, KCS 3.5 is about as serious as they come. As a result it wouldn't be a perfect choice for the beginner. Its professional approach carries right through the package, with even the manual making a few assumptions as to the user's abilities. For the novice I'd say Dr.T's Tiger Cub might be a better starting point. And if you become hooked 3.5 could well be the ideal upgrade.

For the pros it's excellent, if perhaps a little expensive. However in the long run it could be a good investment as its modular approach could effectively remove the need for a complete upgrade in the future.

Having said that, even a pro will need to do some late night reading to get the best from what is certainly the ugliest and arguably the most powerful package yet seen on the machine.

Quite simply the most unusual and powerful variation generator yet to appear on the machine. Ten pages of controllable variation commands, ready and willing to add some sparkle to your art





Your very own modern art transformed into the medium of the musical old school

Price reduced to £149 on trade-in with either MusicX, Bars and Pipes, Master Tracks Pro or Pro 24.
Price reduced to £179 on trade-in with Tiger Cub, Sequencer 1, MusicX Junior or MRS.
If your particular package isn't listed, I'm sure that those nice folks at Zone will happily cut another throat or two if you ask them nicely.

KCS 3.5 is available from Zone Distribution on 081-766 6564 Price £279

Dr T's Music Software

BLUE RIBBON SOUNDWORKS LTD

BAND-IN-A-BOX

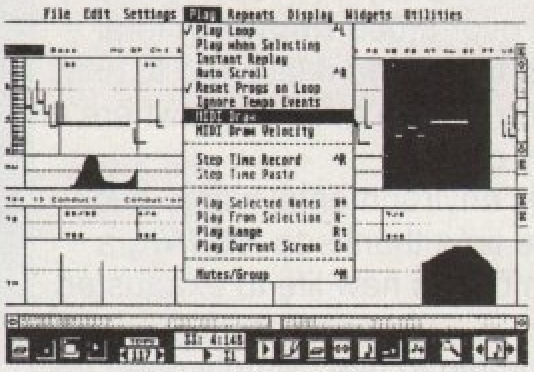
TRYCHO TUNES PERFORMANCE SEQUENCES

ZONE DISTRIBUTION

THE BEST SUPPORT FOR THE BEST MUSIC SOFTWARE IN THE WORLD

Dr T's Music Software

Dr T's KCS has over the years established itself as one of the most reliable and well featured sequencers available for the AMIGA. KCS ha also been used on many major world tours. With the recent release of KCS 3.5 Dr T's have not only shown their support for power sequencing on the Amiga but have in the words of many reviewers produced a sequencer to compare with the most powerful available on the Atari and Apple Mac.. KCS now includes the full range of sequencing tools needed for virtually any musical application.



TIGER, the realtitme graphic editor, Quickscore, the notation module, Automix, the graphic faders & PVG are just a few of these tools. Couple this with Dr T's MPE environment where multiple programmes can 'share' data in real time and a newly designed front panel, KCS 3.5 is the answer to all your prayers.

Here's what one reviewer had to say;

' KCS not only offers the best MIDI/music environment available for the Amiga at the present time, but provides workstation potential which is powerful enough to challenge some of the established heavyweights of the ST world '

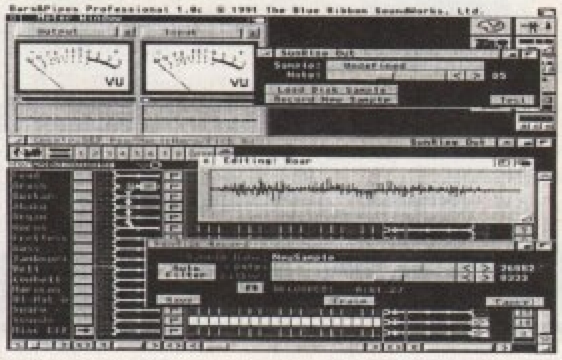
Paul Overa, Sound On Sound Oct. 1991

Dr T's produce the widest range of music application software for the Amiga in the world. Shown below is just a small selection of these programmes.

KCS 3.5 sequencer	£279
Phantom SMPTE/MIDI interface	£249
TIGERCub 12 track sequencer	£99
Copyist App notation	£99
Copyist DTP notation	£229
X-oR generic editor/librarian	£219

BARS & PIPES PROFESSIONAL

Bars & Pipes Professional encompasses all the power and flexibility demanded by the creative musician. Its power and simplicity give you the ability to record an unlimited number of tracks with unlimited methods of editing, enhancing & embellishing your music. Choose from standard music notation, hybrid notation, piano - roll or an event list as your editing medium. You can also print your music in notated form, including lyrics and chord designations. Once you record your music, you can mix it using MixMaestro. This automated mixing feature includes real time control of



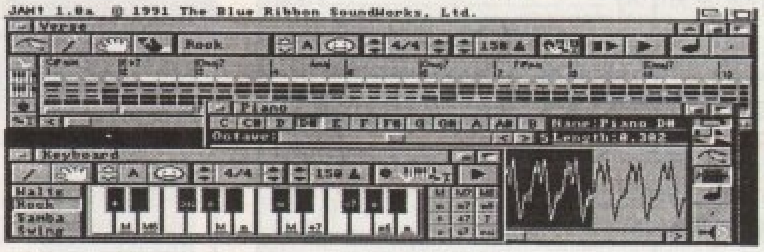
volume, panning and other MIDI effects. You can also use up to 5 separate MIDI ports (80 MIDI channels) with an appropriate serial expansion board. Bars & Pipes Professional's Tools enhance your music as you compose. These tools perform standard tasks such as quantizing, musical tasks such as counter point generation or technical tasks like merging, branching and event conversion. Bars & Pipes Professional is designed by musicians for musicians and will quickly become an invaluable part of your studio.

THE UK VERSION OF BARS & PIPES PROFESSIONAL COMES WITH A SET OF PRE-RECORDED SONG FILES WORTH £19
FREE FREE FREE FREE FREE FREE

Bars & Pipes Professional will open your eyes to a new vision of music composition. It's flexibility, expandable design and innovative architecture will assure composing music will mean 90% inspiration and 10% perspiration.

Bars & Pipes Pro	£299
Bars & Pipes	£149
JAM	£99
Internal Sounds Kit	£49.99
Pro Studio Kit	£49.99
Creativity Kit	£49.99

NEW JAM



JAM is an incredible NEW programme from Blue Ribbon soundworks that can be used by anyone with an Amiga. Unlike ordinary MIDI sequencers and music programmes, JAM requires little musical finesse in order to accomplish exciting results. Instead JAM can create everything from rythmic patterns to chord progressions and fully orchestrated accompaniments at the touch of a button. JAM's unique ability to auto write music in an unlimited amount of styles will appeal to all AMIGA users. Using JAM's new TurboSound Technology™ which allows the Amiga to play more than four sampled sounds at a time, amyone can create fully fledged accompaniments using nothing but the Amiga. Multi Media Artists (*JAM can create and synchronize with packages such as Showmaker, Imagine, Scala and Caligari*), non musicians (*using the TurboSound Technolgy*) and all MIDI & Bars & Pipes users can use JAM to try out various musical styles simply and quickly Using the TurboSound Technology™ you can mix samples on the fly creating an advanced multi timbral effect. JAM includes a special TurboSound editor allowing you to shape, redesign, loop, modulate and filter exisiting IFF files for use with JAM.

All in all JAM is a must for all Amiga owners whether you use MIDI or not.

Available from all good computer shops every where !

Please rush me information on your products

NAME ADDRESS POSTCODE COMPUTER

5, Abbeville Rd London SW4 081 766 6564

ZONE Distribution are exclusive UK distributors for Dr T's, Blue Ribbon Soundworks, Trycho Tunes, Midiman & Band in a Box. We pride ourselves in our level of technical support. Only by purchasing from an authorized dealer will you receive this support.

ASDEC

Special offers Special offers Special offers

UPTO 90% OFF YOUR CURRENT RIBBON PRICES



In 1989 Western Europeans threw away over **128 million** printer ribbons. They weighed over **9,000 tonnes** in total and would reach **right around the world** if laid end to end. A used ribbon cartridge is being thrown away somewhere in the UK **every second** of every day.

You can help put an end to this environmental waste and save some money at the same time thanks to ***RE-INK***, a revolutionary new spray which brings new life to exhausted fabric printer ribbons.

RE-INK is cost effective and simple to use. Simply open up your plastic ribbon cartridge, spray a few squirts of *RE-INK's* special ink and lubricant formula and your ribbon is as good as new – sometimes even better!

BEST OF ALL, RE-INK IS AVAILABLE IN THIS SPECIAL READER OFFER FOR ONLY

£12.95

- ★ *RE-INK* will save up to **90%** on what you currently spend on new ribbons
- ★ *RE-INK* – treated ribbons give **clearer, blacker** print than new ribbons
- ★ *RE-INK* is a very **high quality ink** – no blotchy or patchy ink
- ★ *RE-INK* is universal – it works with **all** fabric ribbons
- ★ *RE-INK* can extend the life of your printer with its special **lubricant** oils

AVAILABLE FROM MD OFFICE SUPPLIES

DISKETTES

Specialists for over 3 years supplying Education, Government, home user, quality, reliability, value for money.

YOU SIMPLY CANNOT BUY BETTER

3.5 DOUBLE SIDED DOUBLE DENSITY

50 DSDD 3.5 Plus deluxe storage box only	£29.95
100 DSDD 3.5 Plus deluxe storage box only	£44.95
This Months Special	
200 DSDD 3.5 Plus 2 deluxe storage boxes only	£74.95

5.25 DOUBLE SIDED DOUBLE DENSITY

50 DSDD 5.25 Plus deluxe storage box only	£19.95
100 DSDD 5.25 Plus deluxe storage box only	£29.95
200 DSDD 5.25 Plus 2 deluxe storage boxes only	£49.95

5.25 DOUBLE SIDED HIGH DENSITY

30 DSHD 5.25 Plus deluxe storage box	£16.95
50 DSHD 5.25 Plus deluxe storage box	£27.95
100 DSHD 5.25 Plus deluxe storage box only	£39.95

3.5 DOUBLE SIDED HIGH DENSITY

10 DSHD 3.5 In Library case	£11.95
30 DSHD 3.5 Plus deluxe storage box	£34.95
50 DSHD 3.5 Plus deluxe storage box	£44.95
100 DSHD 3.5 Plus deluxe storage box only	£64.95

BANX STACKABLE BOXES



Features Include
Both stack horizontally and vertically

90 Capacity 3.5	180 Capacity 5.25 or 130 3.5
Very high quality manufacture Anti-static Protective lock Colour coded dividers only **£8.95**	Beautiful strong design Anti-static Protective lock Colour coded dividers Smooth draw operation only **£16.95**

MD Office Supplies

18 Crescent Way, Farnborough, Kent BR6 9LS Tel: 0689 861400

Educational & Government orders welcome

The Digita range...

Home Accounts2®
An advanced version of Home Accounts, which is limited only by the capacity of your computer. Sophisticated reporting with graphics, and special options such as VAT and loan calculation facilities. Equally suitable for businesses, clubs and charities (ST and Amiga). **£54.99**

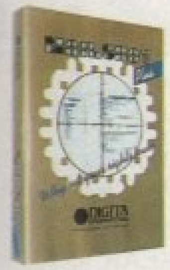




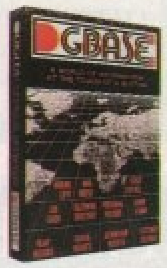
Home Accounts
Ideal for home users who want a simple low-cost way to plan and manage home finances. **£29.99**



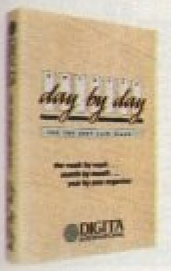
DGCalc
This fast, simple spreadsheet includes many advanced features, including a windowing facility, so that you can look at different parts of the spreadsheet at the same time. **£39.99**



Mailshot Plus
If you ever need to send out mailings or print labels, this program is for you. Animated labels appear on-screen as a continuous sheet, allowing you to scroll backwards and forwards. You can search, sort and detect duplicate labels, print side by side and much more. **£49.99**



DGBase
If you're looking for fast access to information, and the ability to create customised reports, then this relational database is for you (ST). **£49.99**



Day-By-Day
An excellent way to get organised. You'll be reminded of birthdays, meetings and appointments. It includes month/week/day planners and automatic reminders of overdue events. **£29.99**



Personal Tax Planner
Plan your own tax with ease. This simple program will calculate your income tax liability, allowing you to perform instant 'what-if' calculations and produce pertinent facts about your tax position. A professional version is also available for accountants and financial advisers. **£49.99**

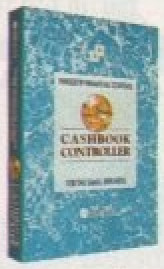


E-Type
Transform your computer into a type-writer. Because text is printed instantly, you can line up your form, press return and space a few times to move to the correct place, and then start typing. Ideal for filling in forms and envelopes. **£39.99**

System 3
A suite of programs which perform all the basic functions for a small business. They may be used independently or integrated and include Cashflow Controller, Stock Control and Invoicing and Statements. **£59.99**

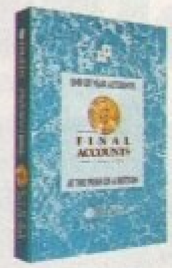


System 3e
Like System 3, but with extended capacity for customer accounts and stock items. **£79.99**

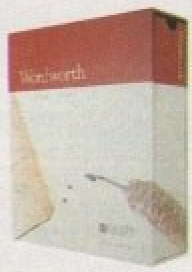


Cashbook Controller
Take the drudgery out of book keeping as this program will replace your cash and petty cash books. In addition to recording cash, bank and VAT transactions, you can enter credit sales and purchases, and for all these entries the program will automatically complete double entry routines, to ensure your records are always in balance. **£59.99**

Final Accounts
Using the information created with Cashbook Controller, this program will produce a complete set of accounts, including Trial Balance, Trading and Profit and Loss Account, Balance Sheet, as well as useful accounting ratios. **£39.99**



Cashbook Combo
A money-saving combination pack containing Cashbook Controller and Final Accounts. **£79.99**



Wordworth®
The graphical nature of Wordworth makes producing documents faster and easier. With the enhanced printing fonts, Collins Spelling Checker and Thesaurus, no other word processor comes close (Amiga). **£129.99**

The Digita range is available for Commodore Amiga, Atari ST and IBM PC unless stated otherwise, and every program comes with a seven day money-back guarantee.

The only way to really appreciate Digita software is to use it. Phone 0395 270273 for more information, or write to Digita, FREEPOST, Exmouth EX8 2YZ. All prices include VAT, postage and packaging.

DIGITA® INTERNATIONAL

software thats right™

The Digita range is available to the trade through Columbus, Gem, HB Marketing, IBD, Lazer, Leisuresoft, Precision and SDL.

Digita International Ltd   Black Horse House   Exmouth EX8 1JL   ENGLAND   Tel 0395 270273   Fax 0395 268893

APPLEBYS

0962 868280

2 CHESIL ST. WINCHESTER, HANTS

SHOWROOMS Also In:- BOURNEMOUTH BASINGSTOKE ANDOVER



A500 CARTOON CLASSICS



THE NEW A500 PLUS
- Wk bench
- Modulator
- P.S.U.
- Mouse

Includes:
DPAINT III
LEMMINGS
CAPTAIN PLANET
BART SIMPSON

DOWN TO **£357**

A500 CARTOON XTRA



INCLUDES EVERYTHING AS PREVIOUS PACK

DUSTCOVER
MOUSE MAT
10 x 3.5" DISKS
DISK HOLDER
JOYSTICK
10 TOP TITLES (RRP £150)

PLUS **£399**

A500 PUBLISHERS



INCLUDES CARTOON CLASSICS PACK

KINDWORDS V2
- THESAURUS
- SPELLCHECKER
- MULTI-FONT
PLUS
RICOH CPT DAISYWHEEL PRINTER – CALL FOR DETAILS

PLUS **£399**

ACCESSORIES

Amiga 500 Console	£39.99
Amiga P.S.U.	£39.99
Amiga Phaser Gun	£34.99
Astra Games Pack	£29.99
Amiga Stereo Speakers	£44.99
Amiga Replacement Mouse	£16.99
Amiga Dust Cover	£3.99
Amiga Mouse/Mat	£3.99
14" Monitor Stand	£15.99
Naksha Mouse	£POA
2-Piece Printer Stand	£9.99
Parallel Interface	£14.99
Parallel Cables	£7.99
Amiga Light Pen	£34.99
Disk Holder (40)	£7.99

AMIGA CLASS OF 90's

FIRST STEPS EDUCATION PACK

Includes:
A501 RAM EXP, MUSIC MOUSE, DELUXE PAINT II, LET'S SPELL, DELUXE PRINT II, PROWRITE, INFOFILE, LOGO, BBC EMULATOR, TALKING TURTLE

TOTAL RRP £840.79
OUR PRICE **£449!**

MONITORS

PHILIPS CM8833 MK 2 **£229**



- COLOUR
- HI RES
- STEREO
- GREEN SCREEN
- UK VERSION

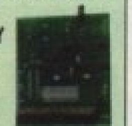
PERIPHERALS



CUMANA 354E
- On/Off SW
- LED Drive
- Slimline

£59.99

1 YR'S WARRANTY
HELPLINE
EASY TO FIT
ON/OFF SW



WINTER SALE!

A500 SOFTWARE MEGA-PACK **£14.99**

SPEEDKING JOYSTICK +
- MIG 29 – BMX
- TENNIS – DIZZY

MOUSE MAT
DUSTCOVER
10 BLANK DISKS
DISK HOLDER
JOYSTICK
ONLY **£19.99**

DISKS 3.5"

		BOXES	
10	£7.99		
20	£14.99	40	£7.99
40	£29.99	80	£9.99
100	£39.99	100	£10.99

SEGA GAME GEAR
- Console Unit
- Mains Adaptor
- Shinobi Game

£114.99

CDTV



THE NEW DYNAMIC TOTAL VISION SYSTEM FOR COMMODORE. PLEASE CALL FOR BEST PACKS AND ADVICE

£475 inc.

My Paint	£29.99
World Vista	£45.99
Music Maker	£29.99
Sim City	£24.99
Holy Bible	£29.99
Garden Fax	£29.99
Fun School	£19.99
Bun for Barney	£29.99

PRINTERS

CITIZEN

120D+	£125.99
SWIFT 9	£189.99
124D	£189.99
SWIFT 224	£229.99
SWIFT 24E	£299.99

SEIKOSHA

SP-1900+ (comes with FREE auto sheet feed)	£115.99
SP-2000	£149.99
SL92-24 pin	£219.99

star

LC20	£144
LC200	£209
LC24-10	£209
LC24-15	£359
LC15	£279
LC24-200	£249

SEGA – THE ULTIMATE CONSOLE



THE ULTIMATE 16-BIT GAMES CONSOLE PLEASE CALL FOR LESS THAN RETAIL PRICES AND PACKS

PRINTER ACCESSORY PACK

Includes:
Parallel Cable
200 Sheets Paper
100 Address Labels
Printer Driver

ONLY **£12.99**

JOYSTICKS

Quickjoy Topstar	£14.99
Quickjoy Turbo III	£9.99
Quickshot Python III	£12.99
Zipstick Super Pro	£10.99

AMIGA SOFTWARE SUPERPACKS

1	2	3
MIDWINTER	SWIV	SILENT SERVICE
DAYS OF THUNDER	TOYOTA CELICA	ITALIA 90
TURBO OUTRUN	ULTIMATE GOLF	DOUBLE DRAGON 2
GREMLINS 2	GAZZA 2	CORPORATION
KICK-OFF 2	TEST DRIVE 2	RICK DANGEROUS 2
POPULOUS £29.99	GUNSHIP £29.99	LOTUS ESPRIT £29.99

JUST TELEPHONE OUR ORDER HOTLINE AND WE GUARANTEE OUR PRICES, STOCK AND EXPRESS DELIVERY TO BE OF THE HIGHEST SERVICE STANDARD

TO ORDER. ALL PRICES INC. VAT

NAME ....
ADDRESS ....
....
....
TEL. NO. ....

EXP DATE ....

PLEASE DEBIT MY ACCESS VISA CARD BY

THE DISK



The best CoverDisk arcade game yet? Find out with Jonathon Sole's classic shoot-'em-up



Defenda!

Forget Space Invaders – the arcade sensation of the decade was Williams' Defender™, and our CoverDisk game this month is about as true to the original as you'll find on the Amiga. Fast, action-packed, and frighteningly addictive, Defenda! will have you tearing your hair out, and that's a promise!

The object of the game is to survive as long as possible and protect the people standing on the surface of the planet over which your ship is flying. There are 10 of them at first, scattered all over the place, but it doesn't take long before their numbers decrease.

Green alien saucers, the standard enemy, will appear in waves and fly around making life difficult for you. When one of them finds a person on the surface, it will descend, grab the poor defenceless soul, and move to the top of the screen. If the saucer reaches the top, your little person goes pop! and the saucer turns into a mutant purple saucer which seeks you out with a view to termination.

When all your people have been snatched, the planet's surface disappears and you're plunged into deep space.

Mutants

Here all aliens are purple mutants, and you'll have to fight hard to reach the next level, so guarding those pedestrians is a must.

At first, the green and purple saucers are the only aliens you will have to deal with, but as you progress through the levels an assortment of horrors awaits you. There are bombers, which lay strings of mines across the screen thus making navigation a bit tricky; bouncers, which zig-zag across the screen and can be a real pain; and the ultimate threat – the seekers.



Shoot the saucer to release your planet person

These sleek, grey saucers appear on the later levels and streak towards you in a mad kamikaze dash. They are very difficult to deal with, so don't say we didn't warn you.

Clearing each level will allow you to proceed to the next, but if you're really quick on the Fire button – and you'll have to be! – you can win a wave bonus by wiping out a wave of aliens on your level before the next one appears.

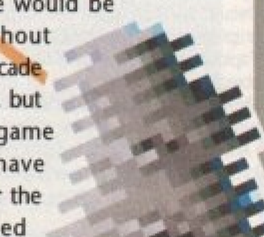
The number of waves in each level increases as you go, and it quickly becomes very difficult to achieve a wave bonus. Keep trying, however, as you will gain points and make your own life a lot easier. When two waves are allowed to overlap, your blasters are in for a busy time.



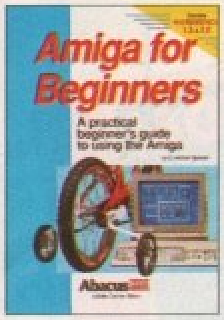
Now's the time to chicken out

Power-ups

No arcade game would be complete without power-ups. The arcade original had none, but versions of the game since then have included them for the sake of improved gameplay. In Defenda! they take the shape of asteroids which drift across the screen. Hit ➤



AMIGA FOR BEGINNERS

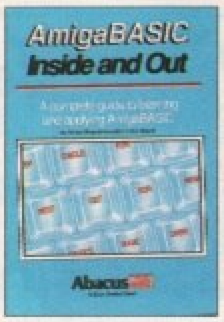


by C. Spanik

Learn the essentials of the Amiga quickly and easily, from opening the box to your first application. Revised for DOS 2.0. • Complete set-up instructions • Backing-up important diskettes • The Extras diskette • Setting preferences • Customising the Workbench • Introduction to AmigaBASIC • AmigaDOS commands • CLI tips and short-cuts • Creating your own icons • Includes Preferences 2.0 information. Using a hands-on approach to teach the first time user every detail, in clear and easy to understand terms, so you can get the most from your computer. Introduces you to *Intuition* (the Amiga's graphic user interface), the mouse, windows, AmigaBASIC and even the CLI (Command Line Interface). Clear step by step instructions.

Ref: 4256 Price:£15.45

AMIGA BASIC INSIDE AND OUT



by H. Rugheimer and C. Spanik

A combination of beginner's tutorial, advanced guide and authoritative reference - the complete guide to learning and applying AmigaBASIC: • Exciting graphics demonstrations • Graphic objects animation • Video titling program for creating unique titles on your VCR • Powerful database • Full-feaured Paint program • charting application for creating detailed pie charts and bar graphs • Speech utility for remarkable human voice synthesis demonstrations • Synthesiser program to create custom sound effects and music. Included are a complete reference section, an AmigaBASIC Quick Reference Guide, and detailed error messages descriptions with tips for avoiding the "guru" next time.

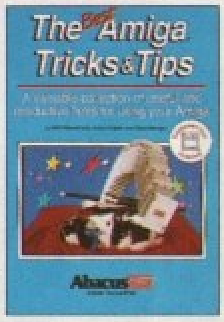
Ref: 4257 Price:£22.95

THE BEST AMIGA TIPS AND TRICKS

WITH DISK

by Bleek, Maegler and Weltner

Dozens of tips on accessing libraries from BASIC, AmigaDOS, sound & more. Includes companion disk with ready to run programs. • Using the new AmigaDOS, Workbench and Preferences 1.3 & Release 2.0 • Tips on using the new utilities on Extra 1.3 • Customising Kickstart for Amiga 1000 users • Enhancing BASIC using ColorCycle & mouse sleeper • Disabling Fast RAM & disk drives • Using the Mount command • Writing an Amiga virus killer program • Changing type styles • Learn kernal commands • BASIC benchmarks • Disk drive operations & disk commands • Learn machine language calls. A great collection of Workbench, CLI & BASIC "quick hitters", hints & applications . Adv prog's will discover the Amiga's hidden powers.



Ref: 8396
Price:£27.93 incl VAT

WITH ONE OF THE MOST SOPHISTICATED PERSONAL COMPUTERS ON THE PLANET YOU'RE STILL ONLY PLAYING GAMES ? GET REAL!

AMIGA DOS INSIDE AND OUT

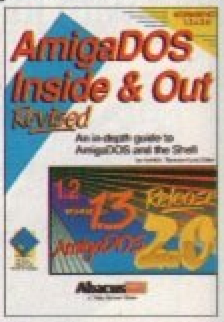
WITH DISK

REVISED EDITION

by Kerkloh, Zoller and Tornsdorf.

Covers the insides of AmigaDOS from the internal design up to practical applications; includes many programming examples. Covers DOS 2.0 & includes Workbench 2.0 & 3.0 info. • AmigaDOS - tasks & handling • Amiga devices & how the CLI uses them • Customising your own startup sequence • AmigaDOS & multitasking • Writing your own CLI commands in C • Resetting priorities - the TaskPri command • In-depth guides to ED & EDIT • Ref for 1.2 & 1.3 CLI commands • Incudes ARexx command summary and sample application programs.

Including quick reference section for fast and easily accessible information.



Ref: 9383
Price:£23.35 incl VAT

AMIGA DESKTOP VIDEO POWER

WITH DISK

by G. Wright

A book for everyone who wants to use the Amiga for Video. You'll find information on video basics, videotape equiptment, video/Amiga interfaces, artwork and more! Updated & expanded to include information about the latest advances in the desktop video market today. This includes extensive coverage of new products such as CDTV and the revolutionary 'TV Studio on a card' Video Toaster from Newtek. Also covers; • Genlocks • Digitising and scanning images • Frame grabbers • Video recorders & cameras • paint and drawing programs • animation • titling • music sources & examples • special effects • home and professional video techniques.

Written by Editor in chief of Amiga World Magazine, Guy Wright.



Ref: 9382
Price:£27.93 incl VAT

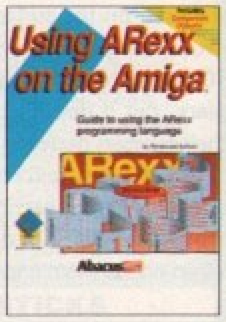
USING AREXX ON THE AMIGA

WITH DISK

by Zamara and Sullivan

The most authoritative guide to using the popular ARexx programming language on your Amiga. Filled with tutorials, examples, programming code & an expanded appendix that you'll use over and over. **Including Disk** with ARexx examples typed in to save you time. • Short history of Rexx/ARexx • Thorough overview of all ARexx commands - with examples • Useful ARexx macros for controllong software & devices • How to access other Amiga applications with ARexx • Detailed ARexx programming examples for beginners & advanced users • Multi-tasking & inter-proramming communications.

The text is sprinkled liberally with tutorials, examples and sample code. The power of ARexx is presented in a clear manner.

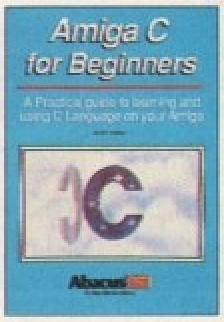


Ref: 9386
Price:£33.02 incl VAT

AMIGA C FOR BEGINNERS

by C. Spanik

A practical introduction to learning and using C language on your Amiga. Basic and intermediate programming techniques without the jargon. • Beginner's overview of C • Writing your first C program • Special features of the C language • Important routines in the C libraries • Input and Output using C • The scope of the C language revealed (loops, conditions, functions, structures) • Tricks and tips for finding errors • Using two of the most popular C compilers. Explains the basic structure and peculiaritites of each C statement and function. And shows you how to use many of the features of the Amiga's operating system - windows, screen, text output, DOS functions and more.

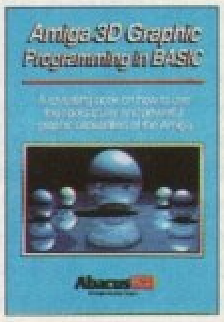


Ref: 5453 Price:£18.45

AMIGA 3D GRAPHIC PROGRAMMING IN BASIC

by Jennrich, Schultz and Massman

Details the techniques and algorithms for writing three dimensional graphics programs, including ray tracing, shading and light sources. Topics include: • Basics of ray tracing • An object editor for entering 3D objects • A material editor for colouring, shadowing and mirroring of objects • Information about wire models • Automatic computation about wire models • Adjusting the projection point and main point of the graphic • Adusting the light source (direction and colour) • Saving graphics in IFF format • Mathematical basics for the non-mathematician.

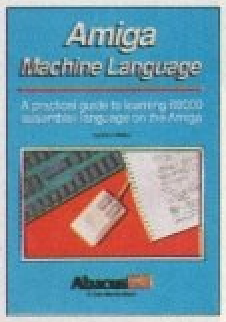


Ref: 5452 Price:£18.45

AMIGA MACHINE LANGUAGE

by S. Dittrich

A practical, comprehensive guide for all Amiga users who want to tap all of the Amiga's true power using machine language. Combined tutorial and advanced guide. Many assembler programs presented, described and explained: •Simple number base conversions •Text input & output • Checking for special keys • Opening CON:,RAW,SER & PRT devices • New directory program that doesn't access the CLI • Menu programming explained • Speech utility for remarkable human voice synthesis • Complete intuition demonstration program including Proportional, Boolean & String gadgets. This is an essential tutorial and reference book for all Amiga machine language programmers.



Ref: 4259 Price:£18.45

GET REAL - GET Abacus AMIGA BOOKS Abacus Call 021 706 1188 for your nearest stockist

UK DISTRIBUTOR: COMPUTER BOOKSHOPS LTD, BIRMINGHAM.

Prices are correct at time of going to press but are subject to change without prior notice



these about 10 times and they explode, leaving a bubble behind them.

The bubble will contain either an "S", a "B", an "X", a "mace", or a smart bomb. The S gives your speed a boost, B is a bonus of 1,000 points, and X is an extra life. Mace is a special power-up which gives your ship a sort of close defence system.

When a mace is collected, it appears outside your ship and spins around you in an ellipse, killing aliens on contact. This is a marvellous device to have when the screen starts to fill up with baddies. Please note that the mace also kills planet people, so don't hover above your last person if you have one!

The smart bomb is added to your existing total of these devices, of which you have 10 at the start of play. To use it, hold down the Fire button for a second or two and your smart bomb will go off, killing all of the aliens in your part of the screen. Again, be careful with smart bombs – they kill planet people too!

You'd think the only way to play a game like Defenda! is to blast away as fast as possible at every mobile object. Strangely enough, though, you'll find a little tactics can go a long way, even in this game.

Sedate

On the first level, for instance, the aliens are sedate enough to allow a bit of people power. Find a stretch of planet surface with two or more people on it and wait till a saucer comes along to pick one up. Let the saucer get halfway up the screen, then blast him and fly into the person. This will result in them hanging on to your ship and you'll collect a few points for rescuing them.

If a person is picked up outside your immediate area, there will be a warning noise. When you hear this, take a look at your scanner. If there are any dots on it going straight up, head for them as fast as you can. Any people collected should be set back down on the planet's surface before you exit to the next level, thus winning you some more points.



That rock may contain an extra life!

Genocide

On later levels, it's often a good idea to find one planet person and guard it as long as you can. Leave the others to their fate, as you can easily lose the lot if you go haring around after every kidnap victim.

A more cynical – though quite effective – technique is to fly along the planet's surface deliberately killing off all but the last planet person. In this way, you can ensure a mutant-free level as there will be no people left to produce purple saucers. Morally dubious though this may be, it was a favourite tactic on the original game and works just as well in Defenda!

Whatever tactics you employ, you'll end up dead in the end. All you can do is try to amass as many points as possible, though you'll have to go at it to match the guy I once saw in an arcade with – count them! – nine million points.

Giftware

Defenda! is copyright *Amiga Computing*, but if you like it as much as we think you will, you should send a donation of £5 to the author, Jonathon Sole, at the address in the Defenda! docs. Please show your support to the author for giving you one of the best CoverDisk games ever.

FastCat

Authors: Andrew Ridsdale and Nicholas Dodd

FastCat is a program to network two Amigas together using no more than a null modem cable of the kind owned by thousands of users. It is a great deal easier to install and operate than its CoverDisk predecessor, ParNet, and has the advantage of working with more programs.

ParNet's major drawback is that it hogs the parallel port, which many utilities attempt to address directly. When ParNet is running, these utilities, of which Protext is the most outstanding example, rapidly turn up their toes and go guru.

Message mania

FastCat, because it uses the serial port, will interfere with comms packages in a similar manner. However, as there are far fewer owners of modems than of Protext and the sort of programs affected by ParNet, it's a less obtrusive utility.

Possibly the most entertaining feature of the program is its message sending facility. With this it is possible to send messages back and forth between the two Amigas in three different ways.

The default is a spoken message using AmigaDOS's SPEAK: device. While this tends to produce rather robotic sounds, it is the most useful option if one of the users has a program running which opens a custom screen. Rather than have to return to WorkBench to check if a message has been sent, the user will hear it immediately.

The second type, requester messages, pop up on the WorkBench screen in a dialogue box. Clicking on OK when you have read the message will clear the box away. Requester messages are best used if both users are running WorkBench utilities or programs which don't open a completely customised screen. They will, for example, appear in front of Protext but not Wordworth screens.

Finally, mailbox messages are sent straight to the directory specified by the user as his or her mailbox. The default mailbox is a directory in RAM called FastCat-MBox, but this can be changed to store messages on floppy or hard drive.

When a mailbox message is received, the user can even have the Amiga's power LED flash on and off to indicate the message's arrival!

File transfers

The central element in any network is its file transfer system. FastCat, by virtue of its simplicity, isn't as quick as most, but it makes up for it in ease of use. To send a file to a second machine, all the user needs to do is select File from the Send menu, type in the name of the source the destination files, and the transfer begins.

The source file is the full pathname and filename of the file to be sent, and the destination file is the pathname and filename of the intended destination on the other machine. If you wanted to transfer your machine's arp.library file to the second machine's LIBS: directory, you'd type both the source and destination filenames as LIBS:ARP.LIBRARY.

If you were transferring a data or graphics file and wanted it renamed something a little more self-explanatory, such as TRANSFERRED.IFF, it would be easy enough to rename it in the same operation as you transferred it. Remember – the destination file doesn't exist until you carry out the transfer, so you can call it what you like.

Grabbing a file from another machine is carried out using the same procedure in reverse. You specify which file you are interested in, then where it will go on your machine. If you want to rename it at the same time, just use a different destination filename.

Prefs settings

For FastCat to work properly, both networked machines must have identical serial prefs. The most important of these is the buffer size, which determines in what size chunks data will be transmitted between the machines.

On the shareware release, this must be 1,024 bytes rather than the Amiga's default 512 bytes. When you register with the authors you will receive version 1.01, which has a buffer size of 512 bytes, resulting in faster communications.

Printing

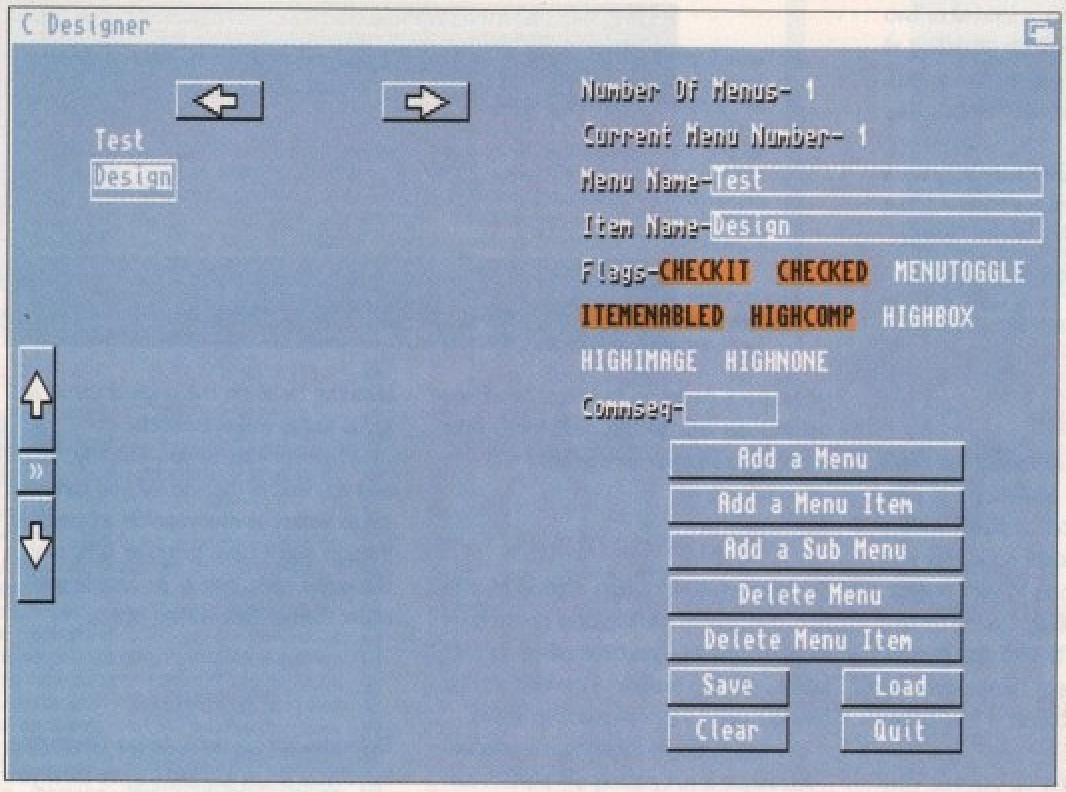
If one of the two machines connected using FastCat has a printer attached, the other machine can direct text files to it by sending a file to the printer as selected in the preferences menu. The default is RAM:PRT, and when a file is sent and renamed as this filename, it will be spotted by the other machine's FastCat and printed.

There is an option to print a banner and user name with each file so that you can keep track of who's printing what, and form feeds can also be specified between the file and the banner. The printing option really does work a treat.

Shareware

FastCat is a shareware program. If you use it, you should register as a user by sending £5 to:

Andrew Ridsdale
4 Corlett Court
Foxwood
York YO2 3LR



Generating menu C source code is easy with CDesigner

Tune of the Month

Author: Malcolm Fraser

This month's tune has a lot more life in it than many an MED tune, which you can put down to the excellent pan pipe samples and the fast moving melody. Enjoy it.

CDesigner

Author: Nicholas Dyson

CDesigner is a program designed to take the drudgery out of creating screens, windows and menus in C. Using CDesigner, the C programmer need only decide on a menu, screen, or window's make-up, using an intuition-based front end, and the program will generate an Ascii text file containing the code for the specified object ready for inclusion in another C program.

Window dressing

Non-programmers can skip to the next utility as CDesigner will be of no use to you. Those of you still reading should have little need of instructions, but a quick run through the program's features wouldn't go amiss.

The window designer section has a full list of flags, including IDCMP flags, any of which can be selected by clicking on them. The window's MinWidth and so on can be set using the dialogue boxes at the bottom of the screen, and its screen format is selectable by clicking on the resize button.

When a resolution is selected, the screen changes to show your window complete with drag bar and resize gadget. The window's dimensions are shown in the box in the top left corner of the screen.

To change its size or location, use the drag bar and resize gadget until you're satisfied it is the correct size, then hit the close button over the dimensions box. Now hit Save to generate the C source code and save it to disk. Simple as that.

Screens

To design a screen, go to the screen designer – no kidding! Here you will be asked to decide on your view mode, screen type, depth, and so on. This is the least complex part of the program and needs no explaining.

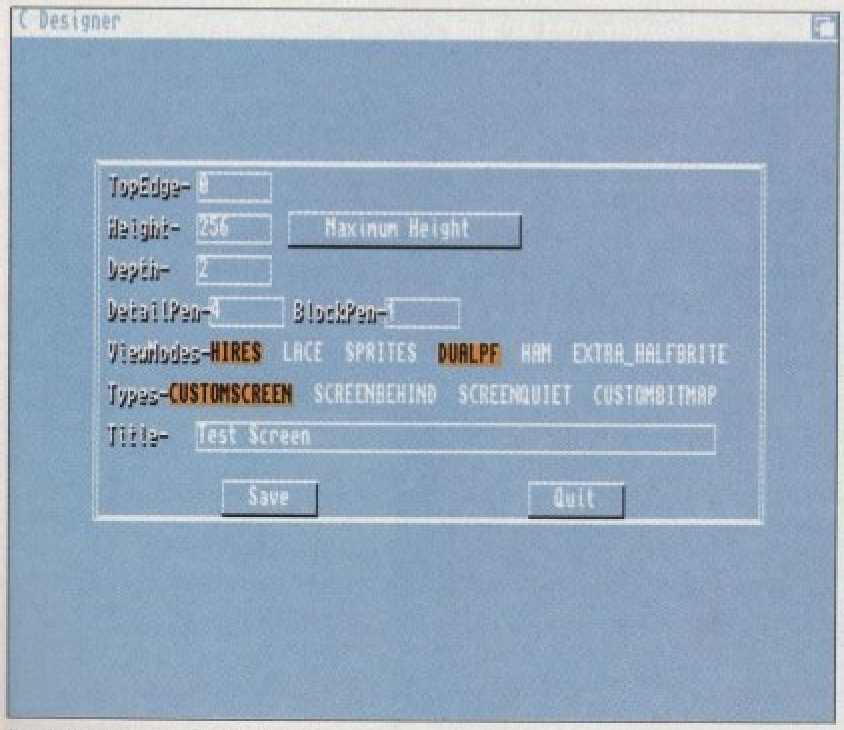
Menus are just as easy to design. The menu designer allows you to add menus, menu items and sub-menus by clicking on the buttons to the right of your design area.

Each menu is displayed as you fill it out, and you can jump between menus and sub-menus using the buttons to the left and above where the menu appears.

Two versions

You can't attach actions to the menu items, but all the usual flags are available, and you can at least see what the menu will look like when displayed. Again, clicking Save will preserve your menu's C code on disk.

Note that when you save a file from CDesigner, it will actually save two versions. The second version will have the file extension .TOK and will be a tokenised binary file, which you can load back into CDesigner at a later date.



Knock off a screen as quick as you like

How to use the Disk

First of all, you must make a backup copy of the CoverDisk. To do this, boot up with your copy of Workbench, then double click on the Workbench disk icon, followed by the Shell or CLI icon. Now type:

DISKCOPY FROM DF0: TO DF0:

or, if you have an extra disk drive, put a blank, formatted disk in DF1: and type:

DISKCOPY FROM DF0: TO DF1:

Follow the onscreen prompts until the copying procedure has ended, then put your original disk away in a safe place. Now switch off the machine and wait for 30 seconds before rebooting with the copy. Wait until the CoverDisk icon appears, double click on it and away you go.

That's all you need do to make a straight copy of the entire disk. However, you may also want to to copy individual programs from your copy of the CoverDisk to a separate disk. In this case ensure that you fully understand which related files need to go with it.

For example, all of the document files on the disk require that the text editor PPmore is in the current disk's C: directory. Therefore, if you copy the docs to a new disk you will also have to copy PPmore to the new C: directory before you can read them.

Some of the smaller docs will not have been crunched, so for these you need only change the tool types on the icon's info screen to reflect whichever text editor you do have on the new disk.

As a general rule, you should carefully read the documentation for any program you copy from disk to disk.

This can save a great deal of messing about and can help you avoid all those infuriating error messages!

DiskCat

Author: Chris Krivitski

A godsend for anyone with a large collection of disks, DiskCat will enable the rapid location of the smallest file hidden away on disk fifty in your collection. Simplicity itself to use and with a fast search routine, DiskCat will be of use to all Amiga owners.

The program works by building up a catalogue disk with an entry for every disk in your collection. Entries are stored in the form of an Ascii file containing a list of every program on a disk, and can be scanned by DiskCat to find the file you're interested in. When DiskCat finds your selection, you will be told on what disk it was located so that you may load up the disk.

Cat building

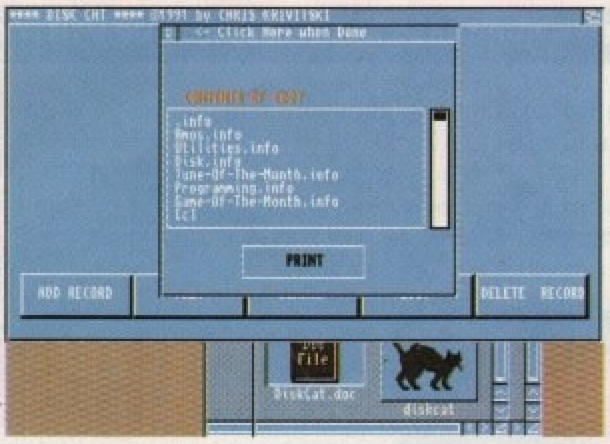
To build a catalogue of disks, simply run DiskCat, click on Add Record, and insert the first disk into your internal drive. When DiskCat has finished scanning the disk, you will be asked for a filename under which to save the record.

This is the entry for the disk you've just scanned, so it should be saved with a sensible name. There is a sample entry on the CoverDisk called CD27.DSCT. CD27 stands for CoverDisk 27, and the suffix DSCT is the standard file identifier added by DiskCat so it can recognise its entries. After each save, you will be asked whether or not you want to scan another disk. By replying in the affirmative, you can carry on in this way until your entire collection of PD disks is catalogued.

Your catalogue has to be recorded onto one floppy disk, but as there is room on a single floppy for at least 500 entries this won't be a problem for most users.

To search for a file, click on the Search button. You will be asked to insert your catalogue disk in df0:, and then whether you want an exact or approximate match. If you specify approximate match, DiskCat will find all occurrences of the string you ask it to search for along with any that are fairly close. An exact search will find the string you've typed and nothing else.

With options to view a disk's entry, then print it, or delete any record from your catalogue, DiskCat offers an ideal opportunity for confused users to make some sense out of their disk collection.



MineSweeper

Author: Adam Lock

MineSweeper is puzzle game in which you attempt to clear a screen of squares without blowing yourself to bits by clicking on a square containing a mine. The idea is simple but the game can be ideal for whiling away the odd half hour, especially as it will work over your WorkBench screen.

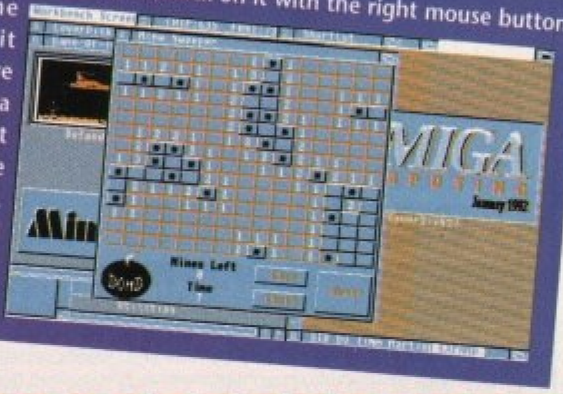
To play, select the difficulty level and size of screen to play on. The more difficult you set the level, the more mines you will find are hidden in the grid. There are two sizes of screen, but I'd advise you start on the smaller one rather than the full-screen sized version.

Danger signals

When a square is clicked on, one of two things will happen. Either you'll be blown sky high, complete with sound effects, or you will find a square with a number in it.

The number indicates how many of the eight squares bordering the one you've clicked have a mine in them. It won't, of course, tell you which is the early bath square, but with a bit of careful thinking it's possible to figure out which squares are likely to contain mines.

Once a square has become suspect, click on it with the right mouse button to mark it as a mine square, then leave it alone. If you find you're left with nothing but a lot of suspect squares at the end of the game and still haven't won, it's time to go back and click on the least suspect squares.



ShortCut v1.2

Author: Michael Bradley

This is a new version of the ShortCut program we gave away a couple of disks ago and which we now use on the CoverDisk. It allows users to set up their own menus for running programs and carrying out DOS functions.

Version 1.2 now has support for up to four menus rather than the single menu provided by the original program. In addition there is a version on the disk called ShortCut.Extra which has no keyboard short cuts, thus enabling longer menu item names and getting rid of the clutter of all those little Amiga key signs.

Extra items

Using ShortCut with keyboard short cuts, you can have a maximum of only 26 menu items before you run out of hot key combinations (there are only 26 letters in the alphabet, after all). The ShortCut.Extra program can accept up to 100 menu items, and is probably a better option for users with large hard drives full of programs.

Full instructions for setting up the menus are included in ShortCut's doc file.

Faulty Disk?

Subscribers If you subscribe to *Amiga Computing* and your disk has been damaged in the post, please return it to:
Amiga CoverDisk, Europress Direct, FREEPOST, Ellesmere Port, South Wirral, L65 3EB

Non-subscribers If you bought your magazine from a shop and found that the coverdisk was damaged, please return it within two months to:
Amiga Cover Disk, Stanley Precision, Unit F, Cavendish Courtyard, Sallow Road, Welldon North Industrial Estate, Corby, NORTHANTS NN17 1JX.

Please allow 28 days for the delivery of your replacement disk.

Think you can do better? Want to be famous?

We are always on the lookout for new, quality Amiga programs for the CoverDisk. If you think you have written something good enough for others to share and enjoy, please send it in and we'll have a look.

The *Amiga Computing* CoverDisk is used by thousands of Amiga owners every month in places all over the world from New Zealand to the USA, so if your submission finds its way onto the disk, you could be famous!

Please make sure you list ALL WorkBench and other files necessary for the program to work. Feel free to design your own icons for progs which run from WorkBench, but please don't make them too big.

If you ensure your program is as compatible as possible with a wide range of Amigas, it will also stand a better chance of publication. We are especially interested in programs designed to work with the A300 although if they work only with the new machin they'll have to be quite small.

We are prepared to pay our current rates for orig nal work which hasn't been distributed in any oth way and which has not been put in the public domain

If you wish your program to be released as shar ware or freeware we will be happy to publish it, b would, of course, be happier if we'd been given it firs

Your submission MUST be accompanied by th submissions form, a copy of it, or a signed declaratio to the same effect. Please supply your full nam address and phone number.

Unfortunately we cannot undertake to return dis sent to us as the volume of submissions makes this a impractical exercise.

Name...Age..........

Address..

....

....

....

Daytime phone..............................Evening phone..............................

Submission name..............................Submission size..............................

Type of program: Game ☐ Utility ☐ Tune ☐ Other..............................

You must sign this declaration

The material on this disk is mine. I didn't steal it from someone else. It hasn't been published before and I haven't submitted it elsewhere because I want *Amiga Computing* to publish it. I understand that by submitting my work to *Amiga Computing* and signing this declaration. I am giving full copyright control to Europress Publications Ltd.

I understand that if my submission is bought by *Amiga Computing* I will be paid the current applicable rate. I know what copyright means and I will be responsible for any possible litigation arising from breach of it by Europress Publications Ltd as a result of using my submission.

Signed..............................

Date..............................

Post your submissions WITH A COPY OF THIS FORM to:
Stevie Kennedy, *Amiga Computing*, CoverDisk Submissions, Europa House, Adlington Park, MACCLESFIELD SK10 4NP

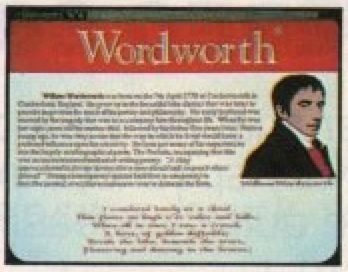
Wordworth

a writer's dream

v1·1

The graphical nature of Wordworth® makes producing documents faster and easier. The WYSIWYG display shows exactly how your printed document will look, different fonts, styles and sizes, headers and footers, graphics and so on.

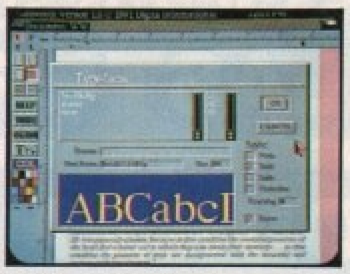
Commands are grouped under a series of pull-down menus, accessible either by the mouse or keyboard. Frequently used commands have on-screen icons, including Help, should you need it.



Experience the look and feel of the new and exciting WB2 (even if you use WB1.3). Each document is a separate multi-tasking window, which means you could for example, print one document while editing another.

Digita's® innovative *Human Interface Protocol*™ is incorporated setting a new standard in speed, style and elegance. "It *HIP*™ system is intuitive and a pleasure to use." – thank you Amiga Shopper, it's nice to be appreciated.

Graphics have always been the Amiga's strong point. Now it's better than ever. Pictures from Deluxe Paint can be placed in a document, and then sized, scaled and dragged (text automatically reformats around the image).

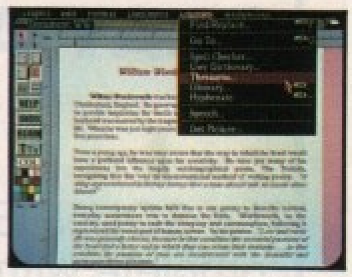


Wordworth's enhanced fonts will give you the very best printed quality. You can also print special symbols, such as boxes, arrows and so on. Better still, you can mix graphics, Wordworth's enhanced fonts, Amiga fonts, Colorfonts and your printer's own internal fonts, all on the same page. There's even a driver for Postscript printers.

You needn't worry about your existing information – Wordworth will let you open documents from most word processors, including Kindwords, Protext and Wordperfect (you can also mailmerge with Superbase).

When Amiga Format said "a new word processor that will give the rest of the world a run for its money" they weren't joking.

Wordworth is written in the UK by Digita. Which means you'll be using an English Collins spelling checker and thesaurus, and you'll know where to come for professional support.

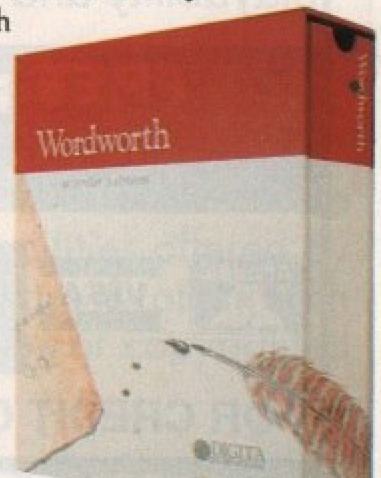


The only way to really appreciate Wordworth is to use it. Phone 0395 270273 for more information or, write to Digita, FREEPOST, Exmouth EX8 2YZ.

Wordworth costs £129.99, which includes VAT, postage and packing; and when purchased from Digita, comes with a 7 day money-back guarantee.

If you already own a word processor, for a limited period only, you can trade-up for just £89.99 by returning your original disks to Digita with your order.

Summing up, Amiga Shopper said: "Pounds-per-feature no other Amiga word processor comes close. Wordworth is what every owner of Kindwords would wish they had." Dreams become reality with Wordworth.



Machine support
Written specifically for the Amiga
Fully supports WB V1.3 and V2.00
All medium or high resolution modes
(mono and colour)
Requires 1MB of memory

DIGITA® **INTERNATIONAL**

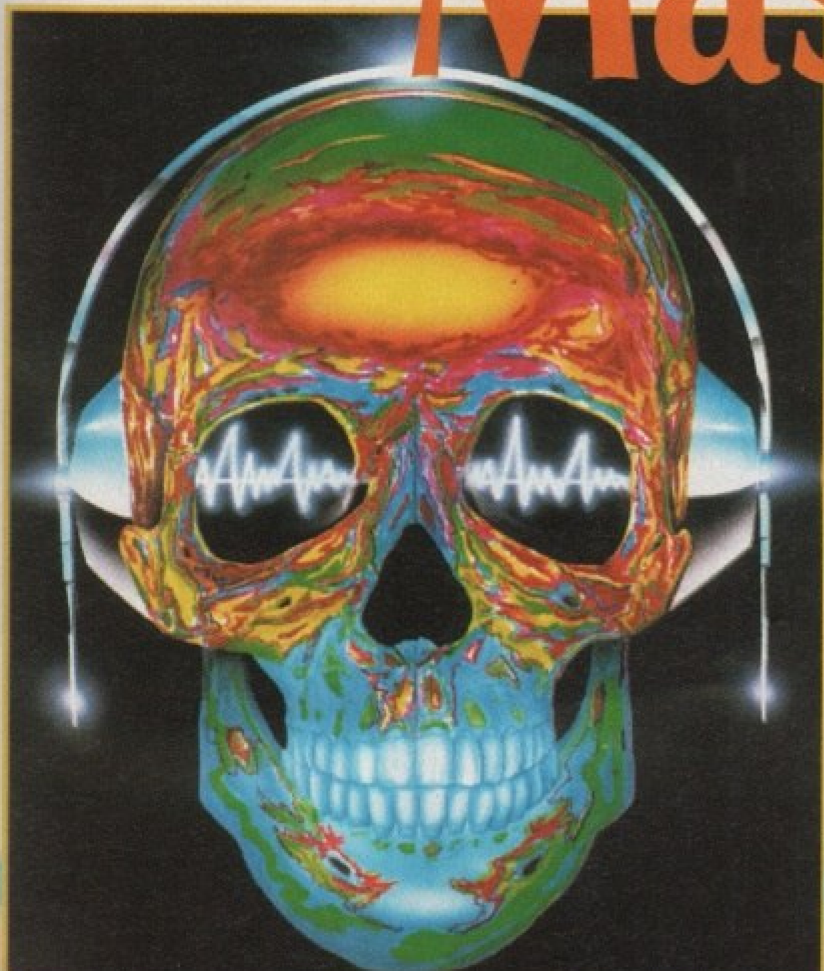
software thats right™

Wordworth is available from John Menzies, Virgin, W H Smith and all good computer retailers or to the trade through Columbus, Gem, HB Marketing, IBD, Lazer, Leisuresoft, Precision and SDL.

Digita International Ltd   Black Horse House   Exmouth EX8 1JL   ENGLAND   Tel 0395 270273   Fax 0395 268893

The Master mix

Eddie McKendrick samples the latest version of Microdeal's audio package



Let's get one thing straight from the start – I'm not aurally talented. My mother delights in telling elderly relatives that I was musical at an early age. This only leaves me to presume that the key fell out at some stage.

Microdeal claim that Stereo Master is so easy to use that anyone with an Amiga, no matter how limited their musical ability, can have some fun with it. We will see...

The Stereo Master packaging is about the same size as a high-end game box. Lifting the lid reveals a single floppy, a 40-page manual, a minijack lead and, most interestingly as far as I am concerned, a vanilla lump of plastic with a D-connector on one side and a mini-jack socket on the other.

A quick flick through the manual confirms my suspicion that the intriguing vanilla brick is in fact the sampler. This device connects to the Amiga via the printer port. The hardware chain is then completed by hooking up an audio source using the supplied 3.5in mini-jack lead.

After performing the four AmigaDOS commands required to install Stereo Master on to my hard disk the fun really begins. Ease of use has obviously figured highly on Microdeal's list of priorities. A brisk double click on the Stereo Master icon reveals the program's title screen. Click once more to be presented with a screen comprising four display windows and numerous shiny buttons and counters.

Stereo Master boots up in sampler mode. This is the software module required to capture or "sample" chunks of sound into the Amiga's memory.

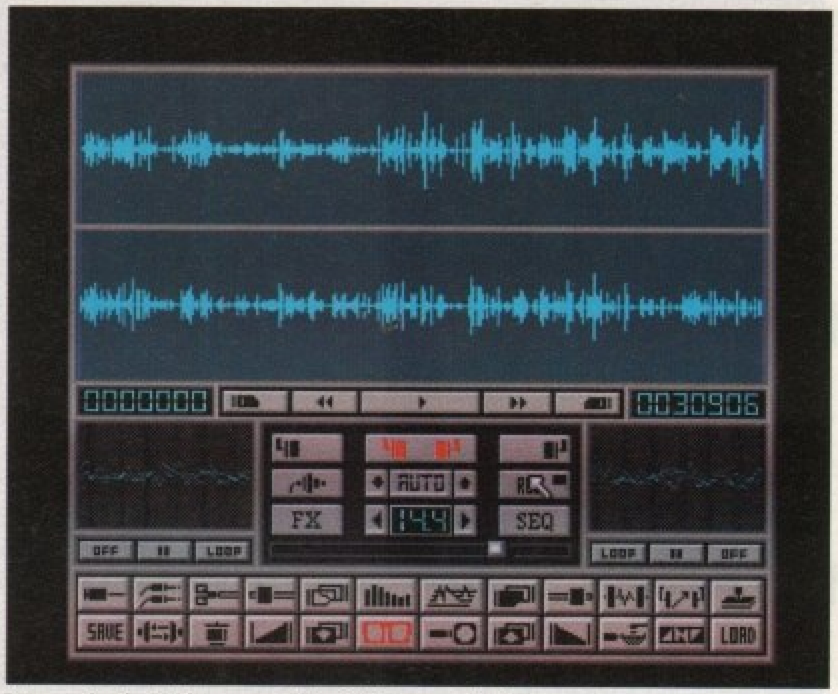
There are many different parameters which dictate how your audio input will be sampled. Choose to use the settings Stereo Master loads with and it will sample in stereo at 14.4KHz. If you have never used a sampler before you are well advised to trust the defaults initially.

Sampling

The first thing to do before you attempt to sample anything is set the source input volume level. According to the manual this is achieved by comparing the two onscreen scopes (left and right) with diagrams representing too low, too high and just right.

The scopes analyse the audio input and translate it into a waveform, updated in real time. It's a shame that Stereo Master doesn't feature needle-style PPM or VU meters – I think beginners would find these easier to deal with.

In reality, unless you can input a constant source, like a 1KHz tone, level setting with scopes is more trial than error. During my play with the system I found switching on the "monitor" option was the best way to set levels. This facility pumps the source input straight through the Amiga and out through the monitor speakers.



Buttons galore ! – But the many sophisticated features are simple to use

If your source level is too low you will hear lots of background hum – if it is too high there will be noticeable distortion and clipping.

There is no way to attenuate the volume within Stereo Master. Instead you must connect the input lead to a source with variable volume. A fixed "line out" will usually be way too loud for the sampler but a variable output headphone socket will be ideal.

Right, you're wired for sound, the input level is set just right and you've got your favourite *Oceanic* single in the CD player ready to zap it into the Amiga... what now?

Well, it's as easy as pressing a button cunningly marked (REC)ord. Hardly an alien concept I think you will agree. The only problem is that you have to either press the CD player Play button and the Rec button simultaneously or start one before the other. Long arms and good co-ordination are obviously needed!

However, Using the Auto function, it's possible to set a volume threshold to trigger sample recording. This means that Stereo Master listens to the input and as soon as it hears something loud enough it will spring into action.

Memory

Sample length is regulated by how much memory there is under your Amiga's bonnet. My 2000 has 3Mb of RAM, which Stereo Master divides up between its sampler and sequencer modules. The program uses the largest available block of fast RAM available to store and manipulate samples, which on my setup is 2Mb.

That sort of storage allows me just over 60 seconds of high quality stereo sampling. Don't panic if you have an unexpanded Amiga with no fast RAM. The program will simply grab half of the largest area of available chip memory. It is also possible to configure the system to dedicate more memory to sampling – at the cost of the sequencer. Sixty seconds doesn't seem like a very long time, but the art of sampling is to join lots of small samples together. This is called sequencing, of which more later.

So, assuming you have just sampled ➤

a substantial chunk of Jason Donovan into your Amiga, it's only natural that you will want to mutilate it beyond all recognition. This is where Stereo Master really scores!

On completion of sampling the two channel monitors at the top of the work screen will resemble something straight out of *Casualty*. In reality you are staring at the sample in all its glory. The peaky bits are loud passages and the straight lines in the middle are quiet interludes.

Below the channel monitors there is a VCR style panel of buttons. Clicking on the play arrow will result in your sample being played back. If you sampled at 14.4K it should sound just as good as the original. If it doesn't, check your input level.

As the sample plays you will see a line travelling across the channel monitor windows. This is a graphic indication of which part of the sample is being played.

By adjusting the position of two blue lines or cursors within your sample, it is possible to restrict the area of audio you are working on. Simply pick the cursors up and position one at the start point and the other at the end point of the passage you are interested in. This is useful for picking out a particular word or beat.

Clicking on the magnifying glass icon will zoom in on the area of sample between the two cursors. Pressing the play arrow will cause the section of sample you have highlighted to be played.

Editing

The real fun of sampling comes in the editing. Using Stereo Master it is possible to do almost anything to a passage of audio.

For example, with a single mouse click you can play the sample backwards with Reverse, Fade In or Out, change its volume, or remove and insert sections at will with Cut and Paste.

It's even possible to put a sample on top of another one using Overlay. Interesting effects are also obtained by switching left and right channels using the Swap function. There are a number of other editing functions designed to make samples more manageable. These include the ability to compress a sample. Put crudely, compression will result in a sample being squeezed so it takes up less space. The program allows samples to be shrunk by up to 75 per cent.

Obviously the compressed samples aren't anywhere near as good as normal ones, but for drum rhythms and the like it's not really an unbearable hardship.

Samples can be saved in a number of formats including raw and IFF. Stereo Master also has a unique "executable" file format. Save your sample like this and the program will attach an icon to it (as well as several K!). Playing is then a simple matter of double clicking or typing the sample name from CLI. Ideal for putting that personal touch into your startup sequence.

The sequencer

There are hours of fun to be had swapping, mixing, flipping and generally mangling your samples with Stereo Master. Eventually though, the time will come to move onto the built-in sequencer module.

The sequencer allows you to assign your samples to keys on the Amiga's numeric keypad. It is then possible to octave shift them, loop them and play them in any order – a bit like a primitive synth.

The mechanics of the sequencer are very similar to the sampler module. Basically you can load a sample into each of the keypad's 18 keys, bang the Record key and make like Harold Faltermeyer.

One of the most fun features of the sequencer is Test mode where you can happily bang keys and listen to the result in real time. Nothing is recorded, allowing you time to perfect any complex arrangements.

As well as playing a sequence in real time it is possible to insert and delete specific events. This is handy for getting rid of a misplaced beat or adding a touch more "ooomph" to your exploits.

As you would expect, it is possible to load and save sequences at will. You won't reach the credibility of the Pet Shop Boys in a hurry, but you might have more fun along the way.



Real time special effects provide hours of fun

These days every program has to offer lots of twiddly bits before it can be considered special. Well, Stereo Master must be extra special if its bolt-ons are anything to judge it by.

A large section of the program suite is dedicated to an easy to use real time special effects generator. Stereo Master will take your input source and manipulate it any of a number of ways.

You can add echo or reverb. You can even inflict ramp, pitch changes, stereo panning, multi-echos (good for British Rail tannoy simulation), chorus, phaser, reverse or plain old pitch bend to your unsuspecting source. It is even possible to customise these effects to introduce your own type of controlled distortion.

Cheap and easy

These sort of effects are by no means new. However, professional units of the past cost a fortune and needed a rocket scientist mentality to get the best out of them.

Stereo Master's special effects generator scores massive fluffy dice points and it might even have proven genuinely useful if it was possible to record the output of the effects system as a sample!

As it stands, you can listen to Marky Mark and the Funky Bunch with pitch change and multi-echo, but you can't record this musical milestone for posterity (or to release as a Colour Me Badd single). It is truly mystifying that Microdeal didn't think of allowing FX to be triggered during sampling!

The ashtray on a motorbike syndrome doesn't finish there – Stereo Master has another breathtaking ace up its sleeve.

The program's fast fourier transform facility will convert your sample data into a fractal rendition of the Himalayans. Don't get me wrong – I'm not complaining, I'm a self-confessed twiddler at heart and the more weird and wonderful features the better! This facility would be something very special if it updated in real time. As it is, it updates eventually rather than continuously.

Stereo Master also has two built-in high resolution spectrum analysers. Very therapeutic to look at in a dark room. The only problem here is that it is not possible to hear the sound and see the analysers simultaneously. Again, baffling.

Conclusion

I approached Stereo Master as a novice and a cynic. I can honestly say that within a few short hours I lost the novice badge.

I think Stereo Master is an utterly superb product for anyone remotely interested in getting the most out of their Amiga's sound capabilities. Even if you think you're not interested in audio, Stereo Master could be the package to convert you.

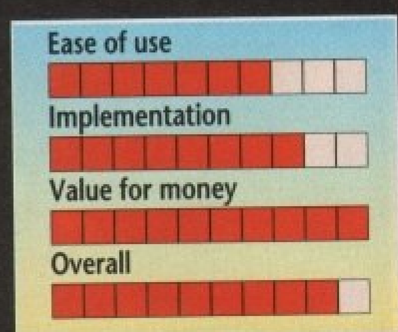
I have a few reservations and gripes, most of which I have dealt with in this review. The most irritating memory Stereo Master will leave me with is that the audio cable Microdeal supply is only a third of a metre long. It could do with being around 10 times that length – that way you wouldn't have to totally rearrange your hi-fi to hook it up to the Amiga. This really is a minor point, though.

Stereo Master is a complete digital recording studio and sequencer for less then the price of some games. If you have an Amiga, something with a headphone socket and even the slightest tingle of a musical bone in your body – buy it.

AC

Stereo Master is a product of Microdeal Ltd, Freepost, ST AUSTELL PL25 4BR

Price: 34.95





Sample, then sequence – it's all built in

POWER COMPUTING

NEW LOW PRICES

PC880B POWER DRIVE



- Built-in Blitz hardware copier
- Built-in virus blocker
- No annoying click when drive is empty
- 12 month warranty £69·95

PC880 Drive (Anti-click) £49·95

DUAL DRIVE

The only company to make the dual drive
'Quite simply, the best all rounder' ...
Amiga Shopper Best Buy April '91

New Dual 3·5" Drive with built-in power supply, same features as PC880B £119·00

A500 Replacement Internal Drive



No case modification required £40
40MB Slimline Hard Drive £299
A500 Internal Anti-click board £9·95

NEW BLITZ AMIGA

- Back-up your disks at lightning speed
- Copies from the internal to the external drive
- Backs-up an Amiga disk in as little as 40 seconds
- Backs-up other format disks (Atari, PC)
- Copies up to three external drives at once
- Stops ALL external drives from clicking
- Contains ANTI-VIRUS switch! – prevents viruses from being written into the bootblock
- Works on Amiga 500 or 2000 £25

Original Blitz £15

MEMORY

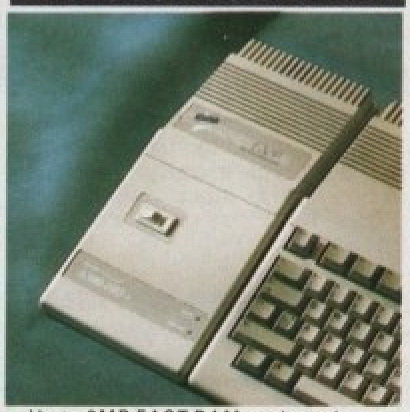


1·5MB Expansion Board £79
FULLY SUPPORTS 1MB CHIP RAM
MOST BOARDS DON'T
Plugs easily into your Amiga*
512K RAM Card without clock £24
512K RAM Card with clock £29
* Fully compatible with 'Fatter Agnus' and 1MB Chip RAM Kickstart 1·3 and above, simple internal fitting

8MB A500 RAM BOARD

- Plugs in the side slot
- Fully auto-config
- Full thru' port
- Expand 2MB - 8MB
- Plug in & go operation £CALL

GVP Series 2 Hard Disk



- Up to 8MB FAST RAM on-board
- High speed "FAASTROM" controller
- Auto-boot from FFS partition

52QMB with 2MB RAM £439
105MB with 2MB RAM £639

AMIGA 500

NEW A500+, 1 MB, Kickstart V2, enhanced chip set £399
Amiga 500 512K £330
Amiga 500 1MB £350
Amiga 500 2MB £395
Amiga 500 1MB + 20MB Internal Hard Disk £600
A500, 1MB, 52MB GVP Hard Disk £799
Packs do not include software unless specifically stated

PC501 Plus RAM Card for the A500+

Our new RAM board is designed specially for the new A500 plus computer and comes with 1MB of RAM on board to expand your memory to 2MB of chip RAM!

- 1MB RAM expansion for A500+
- Plug in and go operation - fits into the trapdoor
- No need to open the computer
- Gives you a total of 2MB Chip RAM!

£POA

GVP IMPACT VISION

- 24 Bit colour board £1799

OPTICAL MOUSE



- 300 DPI resolution
- 600mm/sec tracking speed
- Mouse mat
- Mouse holder £29·95

OPTICAL MOUSE MAT



- A tough replacement pad for your optical mouse
- Strong plastic backing stops creasing
- High resolution grid gives precision mouse movement

Replacement optical mouse mat £9·95

GENERAL

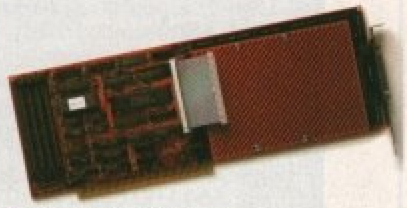
Hard wearing dust cover £9
Philips colour monitor MkII £249
KCS PC Power Board £235
ATonce £169
ATonce A2000 £199
Floppy disk (min quantity 50) £0·34 each
Maxell multicolour disk (10) £9·95
Golden Image Optical Mouse £39
Power Mouse £15

68040

- Accelerator board
- 50MHz
- Up to 32MB of RAM
- For Amiga 2000

£1699
(comes with 4MB)

NEXUS HARD CARDS



- High speed controller
- Up to 8MB RAM on board
- Easy to install
- Fully autobooting
- Compatible with GVP and ICD
- Nexus software

Bare with 2MB of RAM £199
52QMB with 2MB of RAM £339
114MB NEC 20ms £449

GVP A2000 RAM EXPANSION

- Up to 8MB
- 2MB fitted £159

GVP Series 2 Hard Card

- High speed 'FaastROM' controller
- Up to 8MB SimmRAM on board
- Fully autobooting
- Supports external SCSI devices

Bare with 2MB RAM £209
52MB with 2MB RAM £339
105MB with 2MB RAM £539
200MB with 2MB RAM £939

GVP 'COMBO' Board

- 68030 with 68882 co-processor

22MHz Combo with 1MB of RAM £599
33MHz Combo with 4MB of RAM £1299
50MHz Combo with 4MB of RAM £1799
Hard Drive Mount Kit
Combo board £39·95
Simm 32 x 1 £69
Simm 32 x 4 £249

CHIPS

256K x 4 DRAM £5
1MB x 1 DRAM £5
1MB x 8 Simm £30
4MB x 8 Simm £150
8372 Fatter Agnus £39
A3000 Static Column RAM £24

All prices include VAT, delivery and are subject to change. Specifications are subject to change without notice. Next day delivery £4·50 (U.K. mainland only). Dealer enquiries welcome.

Access

POWER COMPUTING LTD
Unit 8 Railton Road Woburn Road Industrial Estate Kempston Bedford MK42 7PN
Tel: 0234 843388 Fax: 0234 840234

VISA

POWER COMPUTING U.S.A. 21 South 5th Street Suite 900 PHILADELPHIA PA 19106 TEL. 215 922 0050 • FAX 215 922 0116

POWER COMPUTING SRL ITALY Via Delle Baleari, 90 00121 Ostia Lido ROMA 2 Lines (06) 5646310 • FAX 5646301

POWER COMPUTING FRANCE 15 Bld Voltaire 75011 PARIS FRANCE TEL. (1) 43570169 (6 lines) • FAX (1) 43380435

POWER COMPUTING ENQUIRIES TO ACL Engineering Perth AUSTRALIA (09) 481 0555

HARD DISK DRIVES

PROTAR A500 HD

- Perfect fitting to the A500 expansion bus
- Colour matched to A500
- Sub 24 millisecond access time
- High speed SCSI controller
- Approx 900KB per second data transfer
- External Game Switch
- 1MB, 2MB, 4MB or 8MB internal ram expansion facility
- 1 year REPLACEMENT warranty
- 2 years on Disk Cache models
- Auto parking & auto booting
- Ultra low power consumption from A500's own PSU
- Supports multi tasking
- Hard disk management software

Protar A500 HD 20Mb Hard Disk Drive	£275.00
Protar A500 HD 40Mb Hard Disk Drive	£345.00
Protar A500 HD 50Mb Hard Disk Drive	£425.00
Protar A500 HD 50Mb with Disk Cache	£525.00
Protar A500 HD 60Mb Hard Disk Drive	£540.00
Protar A500 HD 80Mb Hard Disk Drive	£595.00
Protar A500 HD 100Mb with Disk Cache	£635.00
Protar A500 HD 160Mb with Disk Cache	£895.00

Protar A500 HD 1Mb Ram Expansion*	£58.00
Protar A500 HD 2Mb Ram Expansion*	£115.00
Protar A500 HD 4Mb Ram Expansion*	£240.00
Protar A500 HD 8Mb Ram Expansion*	£480.00

* Requires use of external PSU:

Protar A500 HD Power Supply Unit	£34.00

GVP A500 SERIES II

- Fits to the A500 expansion bus
- Colour/Style matched to A500
- 1" high Quantum hard disk drive
- 11 millisecond access time
- Fastest A500 hard drive available
- Approx 1100KB per second data transfer
- Custom VLSI and Faaast Rom Chips
- Autoboot / Game Switch
- 2MB, 4MB or 8MB internal ram expansion facility
- 2 year warranty
- Dedicated PSU supplied
- Built in cooling fan
- Auto parking & auto booting
- External SCSI port means upto 6 SCSI devices can be connected
- 'Mini Slot' expansion port built in to allow for future expansion
- Hard disk management software
- 105Mb version offers storage equivalent to over 170 Amiga floppies!
- Rated 92% by Amiga Format
- "The best hard drive" – Amiga Shopper

GVP Series II 52Mb Hard Disk Drive	£389.00
GVP Series II 105Mb Hard Disk Drive	£589.00

2Mb Ram Expansion for GVP Series II	£89.00
4Mb Ram Expansion for GVP Series II	£159.00
8Mb Ram Expansion for GVP Series II	£CALL

GVP A1500 IMPACT II

- GVP Impact II SCSI hard card
- Internally fits all A1500 & A200 models
- 1" high Quantum hard disk drive
- 52MB – 11 millisecond access time
- 105MB – 11 millisecond access time
- Approx 1100KB per second data transfer
- 200MB – 18 millisecond access time
- Custom VLSI and Faaast Rom Chips
- 2MB, 4MB or 8MB ram expansion facility on the card
- Ram and hard drive on 1 card saves on internal expansion slots
- Supports upto 6Mb fast ram for PC bridgeboard users
- 2 year warranty
- Auto parking & auto booting
- Excellent installation software
- Hard disk management software
- Supplied with all cables etc
- 105Mb version offers storage equivalent to over 170 Amiga floppies!
- Factory tested hard disk drives

GVP Impact II 52Mb Hard Disk Card	£289.00
GVP Impact II 105Mb Hard Disk Card	£489.00
GVP Impact II 200Mb Hard Disk Card	£849.00

2Mb Ram Expansion for GVP Impact II	£89.00
4Mb Ram Expansion for GVP Impact II	£159.00
8Mb Ram Expansion for GVP Impact II	£CALL

AMIGA PRINTERS AMIGA

AMIGA Accessories

512K ram expansion + clock	£29.99
Compatible external disk drive	£65.00
Golden Image Handy Scanner	£169.00
Squick replacement mouse	£14.99
Amiga A500 dust cover	£6.99
Mouse Mat	£3.50
Cruiser Joystick	£8.99
Zipstick Joystick	£9.99
40 capacity disk box	£4.95
80 capacity disk box	£7.95
Amiga stereo scart lead	£12.99

COLOUR MONITORS

PROTAR VISTO C14M

- Colour monitor
- 14" screen
- Stereo speakers
- 600 x 285 pixel resolution
- RGB / Composite inputs
- Headphone socket
- Green screen switch
- Free with Amiga lead
- Improved version of 8833 II
- 1 year REPLACEMENT warranty

only £ 239.99

ACCESSORIES & RIBBONS

All of our printers come with a parallel cable to suit Atari STs, Amigas and standard PC etc. All printers carry a full 12 months warranty. We only sell genuine UK stock - we do not offer inferior "grey imports". Phone for prices on ribbons and accessories for the printers listed below.

ATTENTION ALL CITIZEN PRINTER BUYERS !

We are offering, to all buyers of Citizen printers 3 different special offers :

1. CITIZEN PRINTER STARTER PACK. *The pack comprises of : 3.5" disk full of printer drivers for the ST, Amiga & PC; 200 sheets of fanfold tractor feed paper; 200 fanfold tractor feed address labels; 5 tractor feed envelopes all for only £12.99.*

2. CITIZEN COLOUR PRINTING KIT. *This kit enables you to upgrade either the Swift 9, Swift 24E or 224 to a full colour printer. The kit comes with a colour ribbon. Normally retailing at around £40.00, we are offering, while stocks last, the chance to buy this colour kit for only £19.99.*

3. CITIZEN SHEET FEEDER. *This semi-automatic sheet feeder will fit the Citizen 120D, Swift 9 or Swift 24E. Put an end to having to feed each single sheet in by hand, simply put a ream of single sheets in this feeder, pull a lever and away you go ! Special offer price of only £ 14.99.*

Citizen 120D + *(9-pin, 144 cps draft, 30 cps NLQ)*	£139.00
Citizen Swift 9 *(9-pin, 192 cps draft, 48 cps NLQ)*	£199.00
Citizen 124D *(24-pin, 144 cps draft, 48 cps LQ)*	£199.00
Citizen Swift 224 *(24-pin, 192 cps draft, 64 cps LQ)* **NEW**	£229.00
Citizen Swift 24E *(24-pin, 216 cps draft, 72 cps LQ)* **NEW**	£299.00
Citizen Swift 24X *(24-pin, 15" carriage)*	£399.00

Star LC20 Mono *(9-pin, 180 cps draft, 44 cps NLQ)*	£159.00
Star LC200 Colour *(9-pin, 180 cps draft, 45 cps NLQ)*	£220.00
Star LC24-200 Mono *(24-pin, 200 cps draft, 67 cps LQ)*	£260.00
Star LC24-200 Colour *(24-pin, 200 cps draft, 67 cps LQ)*	£295.00

Canon BJ10E Bubble Jet *(ink jet, portable and compact)*	£289.00
Hewlett Packard DeskJet 500 *(ink jet, 3 pages per minute)*	£399.00
Hewlett Packard PaintJet *(colour inkjet, 180 DPI printing)*	£785.00

AMIGA Accessories

INTERNAL RAM EXPANSION FOR A1500 AND A2000

The GVP RAM8 BOARD offers upto 8MB of zero-waitstate Fast memory expansion for the A1500 and A2000. Memory can be added in 2MB increments. The 6MB configuration is also fully supported which is extremely important for PC Bridgeboard Users. Because the GVP RAM8 BOARD uses the new custom VLSI chip, the board has a very low consumption count resulting in low power requirements and maximum reliability and life expectancy.

RAM8 BOARD (2MB FITTED)	£179.00
RAM8 BOARD (4MB FITTED)	£259.00
RAM8 BOARD (6MB FITTED)	£329.00
RAM8 BOARD (8MB FITTED)	£389.00

SOFTWARE PACKS FOR ALL AMIGA MACHINES

We have a limited supply of the software packs that are usually supplied with the A1500 Packs A and B.

PACK A comprises of - Platinum Works, Deluxe Paint 3, Populous, Simm City, Battle Chess and Their Finest Hour

PACK B comprises of - Platinum Works, Deluxe Paint 3, Home Accounts, Elf, Puzznic and Toki

Choose either Pack A or Pack B for only

£99.95

TELESALES LINES OPEN 10AM TILL 12MIDNIGHT - 7 DAYS A WEEK - 0903 700714

TELESALES LINES ARE PERSONALLY MANNED TILL MIDNIGHT EVERY DAY !!

ONLY ONE QUESTION ....
BUT MORE THAN ONE ANSWER !!

WHY BUY YOUR COMPUTER GOODS FROM US ??

- FREE delivery anywhere in the UK.
- Next week day delivery only £7.00.
- All prices shown include VAT.
- Genuine UK stock only supplied.
- Stockists of GVP, Protar, Citizen, Star etc.
- Commodore specialists since 1984.
- No minimum order value.
- Full range of A500 and A1500.
- 12 Months Warranty on all hardware.
- Mail order and shop facilities.
- Govt & Educational orders welcome.
- Fully computerised order system.
- Payment by Cash, Cheque or Credit Card.
- 1000's of satisfied customers.

AMIGA PACKS

ALL AMIGA PRICES INCLUDE VAT AND UK DELIVERY. ALL PRODUCTS ARE UK STOCK AND CARRY A FULL 12 MONTH COMMODORE WARRANTY. PLEASE RING US BEFORE ORDERING TO CHECK STOCKS AND CURRENT PRICES.

The NEW Commodore AMIGA A500 PLUS is now in stock.
Some of the features of the NEW enhanced Amiga A500 Plus include :
★ 1MB of RAM built in on the motherboard ★ Workbench and Kickstart V2 ★
★ "Trap door" expansion of 512K takes total RAM to 1.5MB ★

AMIGA A500+ 1MB BASE A500 computer supplied with 1MB ram built in, Kickstart V2, expansion to 1.5MB ram possible via "trap door" using 512K ram expansion, mouse, tv modulator, manuals, Workbench V2 software, etc supplied 'bare' with no games software. **£325.00**

AMIGA A500+ 1MB ASTRA Amiga A500 computer, supplied with 1MB ram built in, Kickstart V2, expansion to 1.5MB ram possible via "trap door" using 512K ram expansion, mouse, tv modulator, manuals, Workbench V2 etc disks, plus the ASTRA 10 games pack including the following games : Datastorm, Dungeon Quest, E Motion, Grand Monster Slam, Kid Gloves, Powerplay, RVF Honda, Shuffle Puck Cafe, Soccer and Tower of Babel **£350.00**

AMIGA A500+ 1MB CARTOON CLASSICS Amiga A500 computer, supplied with 1MB ram built in, Kickstart V2, expansion to 1.5MB ram possible via "trap door" using 512K Ram expansion, mouse, tv modulator, manuals, Workbench V2 etc disks, plus the following top selling software titles : Lemmings, The Simpsons, Captain Planet and Deluxe Paint 3 **£359.00**

AMIGA A1500 BASE A1500 computer with 1MB ram, detachable keyboard, 2 x 3.5" 880k disk drives built in, mouse and all manuals. The Amiga A1500 accepts A2000 peripherals. The A1500 base pack is supplied with no software. Please note that the A1500 does NOT have a modulator. **£599.00**

AMIGA A1500 PACK A consists of A1500 base pack and the following software : Platinum Works, Deluxe Paint Version 3, Populous, Simm City, Battle Chess, Their Finest Hour (Battle of Britain) and 2 books **£649.00**

AMIGA A1500 PACK B consists of A1500 base pack and the following software : Platinum Works, Deluxe Paint Version 3, Home Accounts, Elf, Puzznic, Toki and Getting the Most Out Of Your Amiga book **£649.00**

If you are buying one of our Commodore A500 packs then why not add our
AMIGA STARTER KIT?
Giving you all those little "extras".

- 10 Blank d/sided disks with labels
- Tailored dust cover to fit the A500
- High quality neoprene Mouse Mat
- and a Joystick for the games ....

only £16.99

CARTOON CLASSICS
SOFTWARE PACK

We have limited stocks of the software pack that is bundled with the A500 Cartoon Classics Pack. We are offering this excellent software pack to you for just **£49.99** inclusive. This is what you get :

★ Deluxe Paint 3 ★
★ The Simpsons ★
★ Lemmings ★
★ Captain Planet ★

IF YOU WISH TO ORDER WITH US, THEN PLEASE SEND YOUR CHEQUES, BANKERS DRAFTS, POSTAL ORDERS, CASH ETC TO OUR MAIL ORDER ADDRESS (PLEASE MAKE CHEQUES PAYABLE TO BEST PRICES) OR RING OUR MAIL ORDER HOTLINE ANY TIME BETWEEN 10.00AM AND 12 MIDNIGHT, 7 DAYS A WEEK, **(OUR LINES A PERSONALLY MANNED - THIS IS NOT AN ANSWERPHONE)** AND USE YOUR ACCESS OR VISA CARDS. OR ALTERNATIVELY PAY A VISIT TO OUR SHOP, CHIPS COMPUTER CENTRE.

VISIT OUR SHOWROOM
CHIPS COMPUTER CENTRE, 53 RUGBY ROAD, WORTHING, WEST SUSSEX. BN11 5NB.

TEL : (0903) 700804.

OPENING : MON TO FRI 10AM TO 6PM. SAT 9.30AM TO 5.30PM
FINANCE / CREDIT FACILITIES (SHOP ONLY).
PART EXCHANGE CONSIDERED (SHOP ONLY).
NEW AND USED ST, AMIGA & PC EQUIPMENT ON DISPLAY
ALL TYPES OF SOFTWARE (BUSINESS / LESUIRE / EDUCATIONAL).
REPAIRS UNDERTAKEN. TRAINING. INSTALLATION. ON-SITE WARRANTIES.

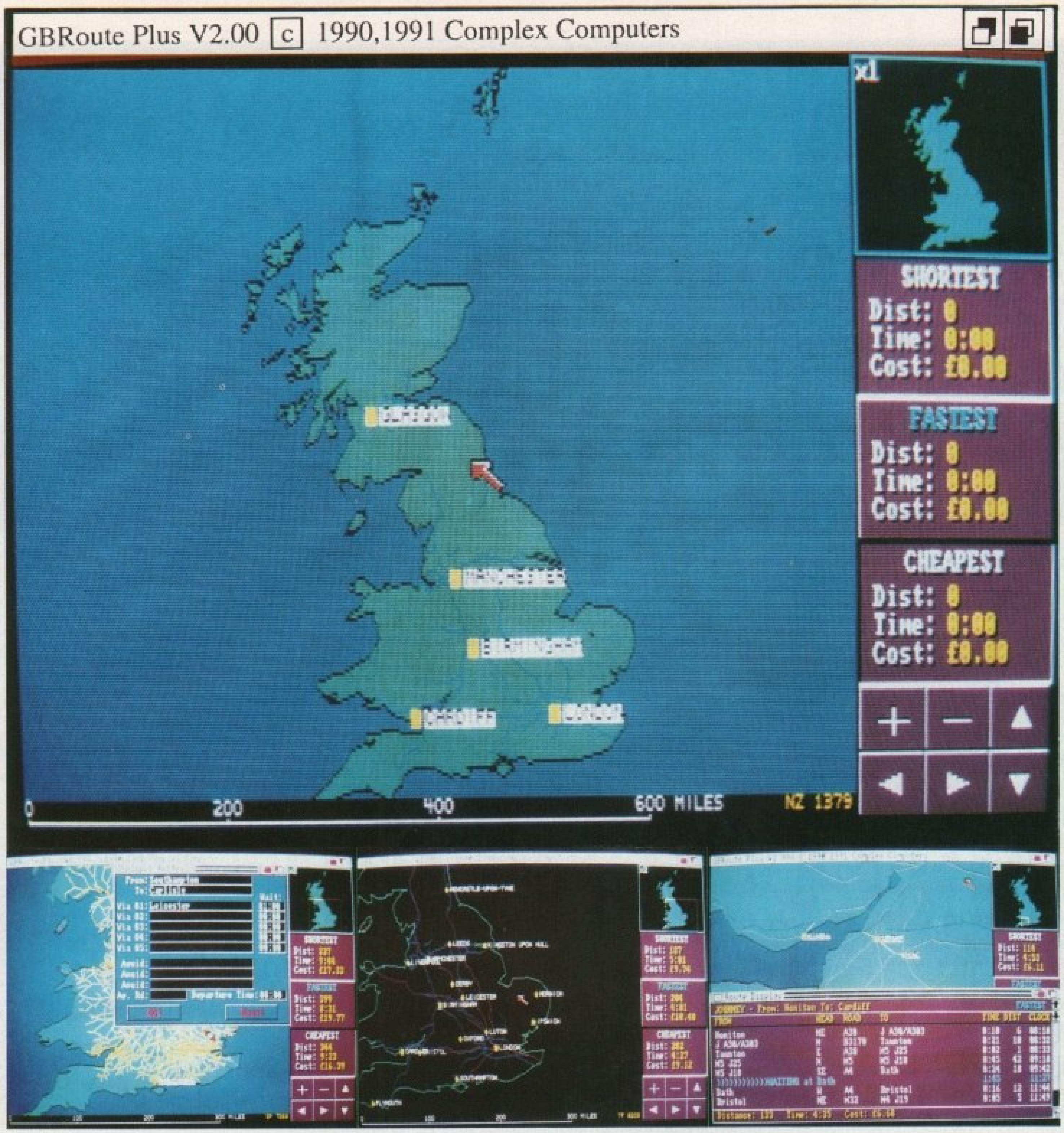
MAIL ORDER ONLY
BEST PRICES (DEPT AC), 53 RUGBY ROAD, WORTHING, WEST SUSSEX. BN11 5NB.

TEL : (0903) 700714.

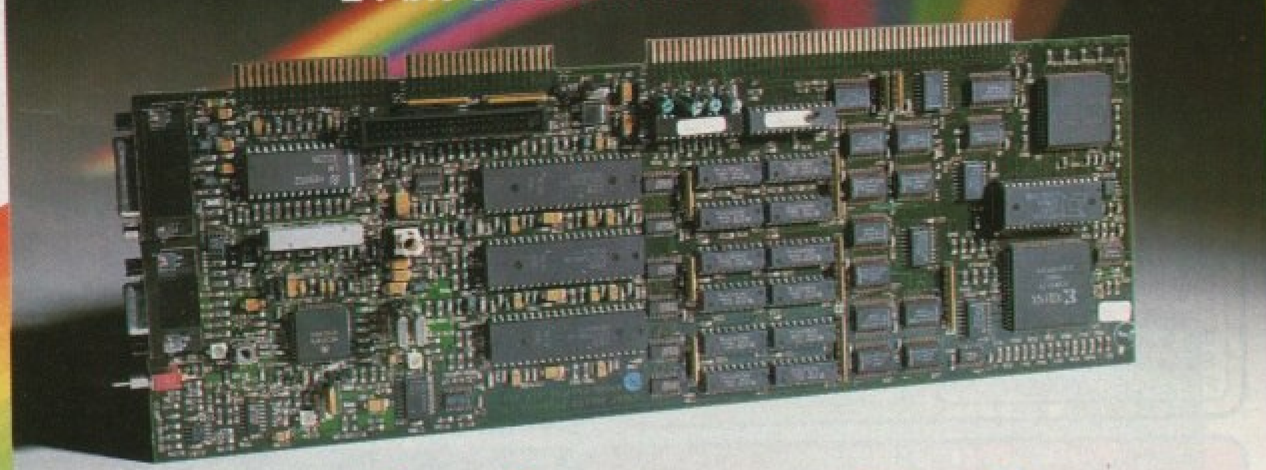
OPENING : 7 DAYS A WEEK 10AM TO 12 MIDNIGHT
ALL PRICES INCLUDE 17.5% VAT AND FREE DELIVERY (AVERAGE 4 - 5 DAYS).
PLEASE ADD £7.00 FOR NEXT WEEKDAY DELIVERY.
GOODS USUALLY SENT OUT THE SAME DAY WHEN CLEARED PAYMENT IS RECEIVED BEFORE 2PM.
PERSONAL CHEQUES REQUIRE 7 DAY CLEARANCE.

All prices include 17.5% VAT and free UK delivery unless stated otherwise. All prices / specifications / special offers subject to change without notice.

OUR TELESALES LINES (NOT A ANSWERPHONE !!) ARE OPEN FROM 10.00AM TILL 12 MIDNIGHT - 7 DAYS A WEEK !!!


GBRoute Plus V2.00 c 1990,1991 Complex Computers
x1
SHORTEST
Dist: 0
Time: 0:00
Cost: £0.00
FASTEST
Dist: 0
Time: 0:00
Cost: £0.00
CHEAPEST
Dist: 0
Time: 0:00
Cost: £0.00
0 200 400 600 MILES
NZ 1379

Will GVP's IV-24 take over the world of multimedia or could aunt Sally save the day with her real-time 24-bit effects and animation?



Impact Vision 24 and the secrets of Sally

As promised in last month's 24-bit extravaganza, I'm taking a closer look at the huge range of added extras that come with the IV-24, plus some inside information on G2's all new Sally board which promises to revolutionise high-end video with live effects of, as yet, unequalled quality.

We'll start with the IV-24 and its impressive range of on-board features and, of course, those external software additions which make the board very hard to beat, especially if you're in the market for an all-in-one multimedia workstation.

After eagerly snatching your latest investment from the sweaty palms of the local postie, what awaits within the shrink wrapping and multicoloured polystyrene?

First comes the board itself and the essential selection of connections, all of which converge on a single port to the board's rear. We'll take a closer look at the available input and output combinations later, but for now it's safe to say that no matter what your setup the board should happily marry up with your hardware.



Controlling the beast

All the glamorous hardware and attendant software is very nice but it needs to be kept in hand, and that's where the IVCP software comes into its own.

There are also separate utilities for the management of Picture In Picture (PIP) display and for handling the board's built-in grabbing abilities.

The above can be invoked via either the CLI or WorkBench, so purists and beginners alike should be quite at home. If you do see yourself as something of an aficionado, there are some extra morsels lurking in the command line.

These hidden tools include options to activate the frame grabber mode, read the IV-24's registers, control the PIP option and load and save both 12- and 24-bit images.

Perhaps the most useful and important of the lot is the IVCD. This is where all the major image and hardware management happens. After clicking on the icon, the screen fills with a control panel which allows you to calibrate the card, switch between RGB and composite modes, and leap instantly from either full video or overlay.

Aside from the mode commands, it's also possible to adjust more subtle parameters such as contrast or perhaps the balance of red, blue and green within the RGB output of the board.

If that's not enough there are also options to adjust the composite phase and keyer.



The hard facts...

We've looked at the software and mentioned how to control the beast, but what's under the bonnet?

Perhaps the most important question to ask of any board is whether it is capable of any pixel, any colour. If the answer is "yes", as in this case, you know you're dealing with a serious piece of equipment.

The next essential query concerns the resolution, and again the IV-24 answers respectably thanks to a maximum resolution of 768 x 576.

If this doesn't mean an awful lot, it translates in real terms to a performance well above that required for video applications, but not quite in the same league as power 32-bit boards such as the Harlequin. As opposed to many of its competitors, resolution and available screen colours are only the start of what awaits within the silicon and solder of the board.

The IV-24 can only hold one 24-bit image at a time, but this can be expanded if you're willing to make a sacrifice and opt for two 12-bit images.

Plumbing it in...

Installation is simplicity itself, especially if you're the proud owner of a 3000, as it's fairly obvious that the product was designed with the 3000 in mind. This isn't to say that the 2000 is neglected, but it will take a bit more messing around during installation.

On the 3000, installation simply means slipping the card into the top slot on the machine, complete with in-line connectors for both the Zorro and video slots. Luckily for the majority of users, however, the designers have avoided the temptation to go for the Zorro III connection and instead plumped for the good, old-fashioned Zorro II.

This still leaves us with the rather tricky problem of connecting the board to the 2000's video slot. This is where the fun starts – if you follow the instructions to the letter it means completely removing the drive bay and feeding the connecting cable and video slot adaptor underneath and into the video slot.

If you're anything like me you won't bother and will instead plump for the lazy approach of placing the board in the closest Zorro and traipsing the connector over the drive bay. This means being a little more careful when removing and replacing the casing but it doesn't really cause too much hassle.

Installing it on a 2000 effectively means the end of the video slot, but that isn't quite as bad as it sounds. If you're already the owner of a flicker fixer or perhaps an internal genlock it isn't the best news in the world, but on the plus side, the IV-24 already gives flicker free display in all modes and has its own built-in genlock plus control software. Now doesn't that make the sacrifice a little more acceptable?

The only real problems will arise if and when NewTek's toaster final crosses the pond. Unfortunately this also requires the video slot, so in the meantime it could be worth looking around for a second-hand 2000 or alternatively a decent set of screwdrivers...



Picture in Picture bringing a new dimension to messing about with WorkBench

As a result you'll have the option of employing some simple page flipping effects which will still appear in the same resolution as the 24-bit alternative.

Employing 12-bit images as opposed to 24-bit means you're limited to 4,096 colours, but unlike Ham (Hold And Modify) these are all true colours. Having made the necessary sacrifice, you're still a long way from animation, but at least it's a start.

Free flicker fixing

Now this little chestnut is by far my favourite freebie available with the board. Because the IV-24 occupies the video slot and provides a constant de-interlaced signal to any multisync, flickering is a thing of the past.



As a result, anyone who already owns a flicker fixer may soon have a derelict piece of plastic on their hands, while those less well endowed might just save themselves a tidy sum.

As long as you leave the board active and pass the output from the Amiga through it, all your applications will benefit from rock solid, flicker free, interlaced output – providing you're using a multisync of course.

Locking and keying

As well as flicker free video, the board also has some very impressive video keying and genlocking capabilities. It can import both composite and RGB signals, but it's the latter that adds the real power to the package.

Besides importing, the IV-24 can also output to either composite, RGB or Y/C (S-VHS) formats.

As a result you can use either a standard monitor or multisync to display the incoming video signal, while simultaneously overlaying Amiga generated graphics.

The Y/C option is great news for all those lucky souls who've been able to afford S-VHS hardware. Having said that, if you want to perform Luma or chroma keying you'll still require an external key generator.

The board comes into its own when an RGB source is applied. Unfortunately, as you're probably all too aware, hardware which supplies an RGB signal direct is far from cheap and in most cases it's well beyond the abilities of consumer VCRs and camcorders even in the high-end S-VHS bracket.



For most of us this will mean an extra investment in the form of a composite/S-VHS to RGB signal converter. Admittedly this is a bit of a pain but if you want the best from the board it's a sacrifice you'll have to make.

The first major benefit of an RGB input is the ability to frame grab in real-time. This option is a must for anyone serious about using the board to its full potential. An instant snapshot in the full glory of 24-bit colour is just too good to miss, even if it adds a bit more to the bill.

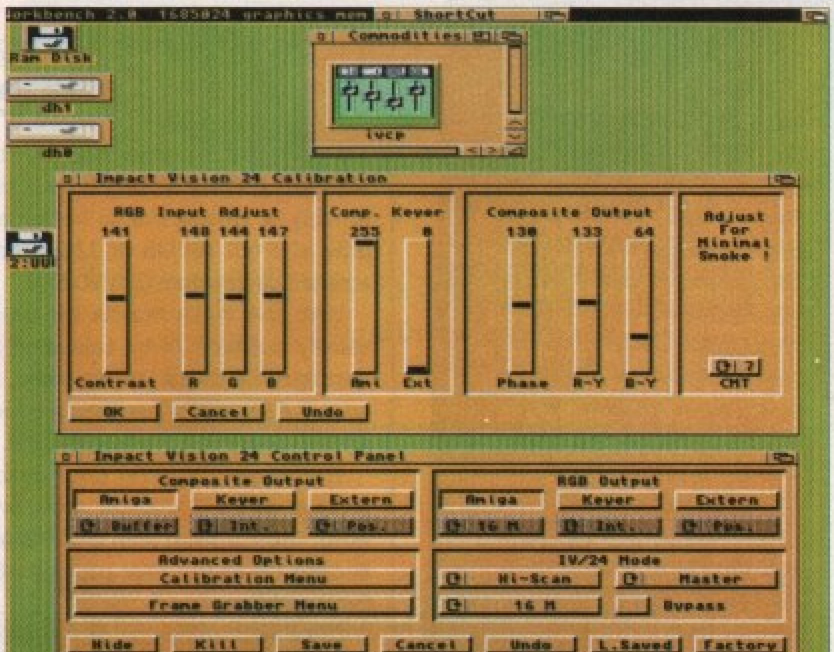
The second advantage of RGB is that it allows you access to the PIP – or Picture In Picture – display. This impressive trick splits the output from the board into two 12-bit signals – one for the incoming video and one for the normal Amiga output.

Once separated the rescalable video display appears in a WorkBench window which can be moved or resized at will, and yet still retains the live video source locked within its boundaries.

If you find a particular point of interest, it can be frozen instantly for closer examination. It's even possible to view the PIP image from screens other than WorkBench, as it remains constantly visible while active.

Whenever the PIP output is used on another screen, the exterior WorkBench window and control gadgets are stripped off. As a result, the incoming video single is left as a clean rectangle which appears to float above a background of Amiga graphics.

PIP has obvious attractions for multimedia and educational applications, ➤

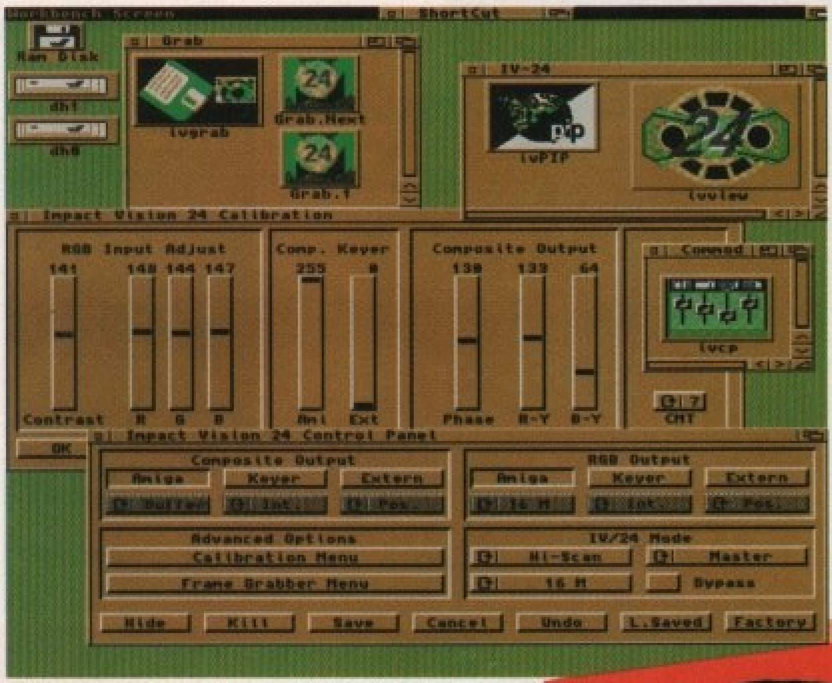


IV24's commodity and calibration software. Making short work of organising the board's output



on and
ly the
silicon

24-bit
an be
make a
mages.



All the IV24's control software just itching to get hold of a video signal

and several software manufacturers are already planning to exploit this feature in their forthcoming releases.

With any video graphics package there's the sometimes thorny problem of synchronising both the computer and video signals. Fortunately the IV-24 doesn't suffer at all in this department and appears to be more than happy working with any incoming signal. This means that there is no need to invest in a time base corrector or TBC, although for professional systems it's recommended.

All in all, I think the board and the added software speak for themselves. I'm not totally impressed with the slightly misleading way in which the additional software is marketed – most of it is no more than stripped-down versions of the original titles.

However, when you look at the package as a whole there's nothing that comes remotely close in terms of flexibility and value for money. As I mentioned last month, we could well be looking at an industry standard in the making.

Price: £1799, plus £49.95 for the A2000 adaptor card (Both including VAT)
Further details: Silica Shop on: 081-309 1111



Overlayed on designer backdrops or genlocked over a video source – the choice is yours

Late news

Those slaves to technology at G2 are just about putting the finishing touches to their latest creation, namely the high-end successor to the VD2001 – the VD2020.

It boasts full 32-bit spec and, perhaps most important of all, the super-quick Texas 34020 graphics processor.

The new board sports 768 x 574 resolution with a programmable key channel that will interface directly with G2's VC3 giving access to literally every format on the planet, plus broadcast quality linear keying.

Software support will add page turns and other special effects, all of which will run in real-time via the Sally board. An updated version of the original Imagic paint is on the way, and provision has been made for a local SCSI port. This means that an on-board hard drive or perhaps an external optical could access the video RAM directly, and hopefully enhance the performance of Sally.

The board should be available in about a month at a retail price of around £2,500. For further details on either the VD2001, VS2001, Sally or the new VD2020 contact G2 systems on 0252 737147.

Buckets of bundles

Aside from the various capabilities of the board, its biggest selling point is perhaps the addition of an impressive range of software, which goes a long way to substantiating GVP's claim that IV-24 is the all-singing, all-dancing answer to any multimedia dilemma.

At first glance the ultimate bargain in the bundle has to be Caligari. In its full version it is one of the most expensive software packages for the machine, with a new asking price of over £2,000. Its inclusion with IV-24 means that you're effectively getting the board for nothing.

Unfortunately that isn't quite the case, as the IV-24 version is severely cut down. The most noticeable omissions include the lack of any point editing, no animation module and no option to create cubic environment maps – although it's still possible to load them from the broadcast version. Perhaps the worst limitation of all is that only a single light source can be applied within any environment.

Having highlighted the black spots, it is perhaps worth remembering that the heart of the system still remains intact and it is just as easy and enjoyable to use as its bigger brother. If you need smooth and stylish 24-bit 3D imagery, it's a good starting point, although you can imagine how your inspiration can be slightly stifled by the software's constraints.

Believe it or not Octree, the authors of Caligari, are offering an upgrade to IV-24 users which will knock an – as yet undecided – figure off the price of the broadcast version. It will, of course, still work hand in hand with the board.

To maintain the high profile GVP have added yet another giant of the software world, namely Scala. Over the last year Scala and its opponent Broadcast Titler II have become the ones to beat for anybody after high gloss titling and interactive presentation.

Like its partner Caligari, Scala also suffers from the effects of some rather drastic surgery. All the interactive elements of the original program have been removed, so in effect you're left with what is basically a glossy video titler.

As well as the lack of interactive buttons, a fair few wipes and fades have also been scrapped in both the text and page transition departments. But perhaps the biggest disappointment is the omission of all but a handful of Scala's excellent fonts.

If you're not the proud owner of a large variety of fonts and suitable images, this could severely limit the potential of the package. Again, having mentioned the faults it's perhaps worth remembering that the software still operates with all the style and panache of the full package even with the fairly harsh restraints imposed on its flexibility.

Unlike Caligari, Scala is not designed to work with the 24-bit output of the board, at least not in its present form. Instead it's employed as a slick titling system which works solely in the IV-24's overlay mode.

Although the lack of 24-bit support is a little annoying, if perhaps predictable, it does mean that you could use your new shrunken Scala without the board as a display package or titler in its own right.

Lastly comes Macro Paint which regular readers will know all about thanks to last month's head to head with G2's Imagic. If you missed it, it's perhaps best described as a nice addition to the bundle, but certainly not the best package to appear on the machine.

The secrets of Sally

What exactly is this rather strangely title pieced of hardware? What can it do? Well Sally is quite simply a huge cache of memory of variable size. In her largest form she can comprise of a full 100Mb of 32-bit memory, which can be accessed directly from G2's VD2001.

With this much muscle the unthinkable is possible, namely real-time 24-bit animation and effects. With the complete 100 megabytes on-board, aunt Sally can display up to 8.8 seconds of non-interlaced full frame 24-bit graphics or 4.4 seconds if interlace is added.

The imagery can either come direct from a 3D rendering package via the VD2001 or alternatively in the form of live video, again supplied from the VD2001, but this time routed through the Imagic paint package with its built-in real-time frame grabber.

Once your animation or live video is held within the board, individual frames can be edited via an additional software module which works in conjunction with Imagic.

The frames of your choice can be cut, pasted, duplicated and erased as required to achieve the perfect finish to the animation. As you've probably guessed, a 100Mb memory cache doesn't come cheap – you won't get much change from £10,000!

Even in it's most minimal configuration, the board will still set you back a staggering £5,000 for just three seconds of animation.

The input signal to the VD2001 is, as you might expect, the industry standard – RGB – and if you require a splitter, G2 will happily provide you with their own VS2001 for what, after Sally, seems a paltry sum of £285.

Output from the card is again RGB. As well as standard display the card will key graphics internally over the incoming signal from the frame grabber which, of course, is fully genlockable.

Where you can stick it.





Viruses, disk swapping, clicking drives, disks which won't back up. Is there no end to the whingeing of the Amiga user?

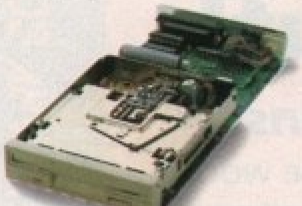
At Power, we want to tell you just where you can stick your disks and worries. In fact we will show you. The slot in this picture belongs to our PC880B, the first intelligent disk drive. Insert a disk.

Now you can back up at lightning speeds using the inbuilt Blitz Amiga hardware*, with free software, (even if the disk is Atari or PC) and if your computer has a virus the PC880B will stop it being written to the bootblock of any of your drives, though you can still save files as normal.

When you do not want these features, switch them off and the PC880B will sit quietly, without clicking, pretending to be simply an extra drive.

The PC880B, the only drive to introduce Blitz Amiga, the Power anti-click device and to combat viruses, is only available direct from Power, priced at just **£69·95**.

We have noticed how pricey unintelligent drives are. Perhaps, it's your turn to tell people where to stick it.



£69·95

* Due to the precision nature of the Blitz copier high density disks may be required with some internal drives.

Our latest dual drive uses the slimline, ultra low power NEC drive mechanism. This drive takes less then half the power of a normal floppy drive, so no bulky power supply is needed! The new dual drive includes all the features you would expect from a Power Computing drive.

The NEC drive mechanism is able to access high density 1·44MB disks. While this may not be of use to you at the moment (the Amiga can only access 880K), watch this space for our new "high density" Interface, on the market soon!

- High spec, low power NEC mechanism
- Whisper quiet operation
- Blitz Copier built-in (switchable)
- Virus blocker built-in (switchable)
- Anti-click



New Dual Drive **£119**

Optional power supply **£5·99**

Dual Blitz copies to two destination disks at a time, even if one of them is used as a dummy. Due to the precision nature of the Blitz Copier high density disks may be required with some internal drives.

Only available at

POWER COMPUTING LTD

Unit 8 Railton Road Woburn Road Industrial Estate Kempston Bedford MK42 7PN.

Tel: 0234 843388 Fax: 0234 840234

All prices include VAT, delivery and are subject to change. Specifications are subject to change without notice. Next day delivery £4·50 (U.K. mainland only). Dealer enquiries welcome.

All trademarks acknowledged

FIRST CHOICE 1 COMPUTERS

FIRST AMONG EQUALS

FIRST CHOICE

would like to announce the most important development to the *AMIGA* A500 for over 3 years!

Tel. 0532 637988

DEPT. AMC, UNIT 8, ARMLEY PARK COURT, STANNINGLEY ROAD, LEEDS, LS12 2AE

The New Commodore *AMIGA* A500 *Plus*

The New *AMIGA* A500 *Plus* **Cartoon Classics Pack** comes with:

* New **Super Agnes** gives **1 Mb of CHIP RAM** as standard upgradable to **2 Mb of CHIP RAM** (and 8 Mb of FAST RAM), thats **10 Mb of RAM in total!**
* **Super Denise** and **improved Custom Chips** allow connection of a **VGA** or **MULTISYNC** monitor without the need of expensive Flicker Fixers
* New **"PRODUCTIVITY"** video display mode gives screen **resolutions up to 1008 * 800**
* **Built in** Battery backed **Real Time Clock**
* **KICKSTART ROM** version **2.04**
* Latest **WORKBENCH 2.04, FONTS 2.04** and **EXTRAS 2.04**
* **New** improved **user friendly** manuals
* Software includes **The Simpsons, Lemmings, Captain Planet, Deluxe Paint 3 plus Mouse, Modulator, and Manuals**

only £359.99 *in stock now!!*

A500 *Plus* RAM Expansion by *Phoenix*

RAM expansions made for the older **A500** may not work with the new **A500 *Plus***. ***Phoenix*** have developed a range of RAM expansion units **specifically** for the **A500 *Plus*.**

Take your *AMIGA* up to **2 Mb of chip RAM** without any soldering or internal modifications whatsoever. Fits simply and easily into the bottom expansion port.

The ***Phoenix*** **RAM will not invalidate your warranty.**

Take your A500 Plus up to 1.5 Mb with space to upgrade to 2 Mb only £34.99 or 2 Mb only £49.99

2 Year Replacement Guarantee

The *Phoenix* Kickstart ROM 1.3/2.04 sharer

Because some older games software will not run on the new Kickstart 2.04 ROM ***Phoenix*** have designed a sharer for both ROM chip sets.

Switchable between 1.3 and 2.04 ROM you can get all the benefits of the latest **A500 *Plus*** without the drawback of losing some of your favourite games software. This unit will also fit into older 1.3 machines including the 1500/2000.

only £24.99

Kickstart 1.3 ROM chip only £29.99

E&OE

The Complete Colour Solution

by ROMBO

As official dealers for Rombo, we are now able to offer this excellent package at a great price. The Complete Colour Solution comes with RGB Splitter, Vidi Amiga, Vidi Chrome, Power supply plus *Photon Paint 2*

now only £134.99

VIDI AMIGA

Frame grabber.

High quality digitizing. Inc Vidi chrome colourising software

only £84.99

RGB SPLITTER

Enables you to Colour Digitize in a second. Replaces red green blue filter set. Can be used with Digi view or Rombo products

only £64.99

THE NEW MICROBOTICS ACCELERATOR BOARDS

The VXL is an advanced 68030 accelerator for the Amiga 500/1500/2000 with space for an optional co-processor (CP)

VXL30 25Mhz EC............only £299.99
VXL 30 40Mhz EC..............only £499.99
VXL 30 25Mhz EC+CP....only £479.99

The VXL 30 25Mhz EC+FPU differs from the others in having Fast Page Mode. This allows it to accept an optional superfast 32 bit 2 to 8 meg RAM board running at 60ns

2 Mb of 32 Bit RAM (60ns)..only £214.99
8 Mb of 32 Bit RAM (60ns)..only £419.99
ICD Adspeed running at 14.7Mhz..£189.99

THE NEW ZYDEC HAND SCANNER

We are now able to offer you high quality scanning at a fraction of the normal cost with the new Zydec scanner. Complete with the high quality Daata-scan software this scanner is able to pick out text and graphics at up to 400 d.p.i in real time. Daata-scan enables you to easily manipulate the image. Ideal for desk top publishing and presentation.

COME IN FOR A DEMO

only £119.99

DISCOUNT SOFTWARE

DELUXE PAINT IV

Simply the best graphics package available on the Amiga. Now with Hold & Modify (HAM) DP4 gives you a pallette of 4096 colours. ***"a stunning innovation and probably the best software package for this market"*** **........Steve Franklin MD for CBM**

only £59.99

PENPAL

This best selling word processor incorporates many features found only in a desk top publisher. Also includes an easy to use database.

Highly recommended

now only £54.99

IMAGINE

Imagine, the ultimate 3D animation rendering system

now only £148.99!

BROADCAST TITLER

This is the best video titler on the market however it does require 2 Mb of RAM

only £169.99

PLATINUM WORKS

We believe this to be the best all round integrated business package on the Amiga. It comes with Platinum Scribble w/p, spell checker, thesaurus, Analyse (a "Lotus 123" compatible spreadsheet with 3D graphics), a database, sideways printing utility and communications software.

only £59.99

PAGESTREAM v2.1

A powerful DTP package that we use and recommend. Better than any DTP package on a PC and better than most on a Mac

only £129.99

SUPER SOFTWARE BUNDLE

Their Finest Hour, Sim City + Terrain Editor, Populous + Promised Lands and Battle Chess

now only £29.99 !

WORDWORTH Version 1.1

The latest version of this highly acclaimed WYSIWYG word processor. Comes with multiple fonts, powerful thesaurus, large spellchecker, speech synthesis **only £79.99**

ART DEPARTMENT PRO

Image processing system

only £114.99

OTHER SOFTWARE

3D Text Animate	£19.99
Aegis Sonix	£39.99
Amos Compiler	£24.99
Amos 3D	£27.99
Audio Engineer	£169.99
Audio Master version 4	£39.99
Calligrapher font creator	£75.99
CrossDos	£22.99
Deluxe Paint 3	now only £29.99
Digi View Gold 4	£99.99
Flexidump printer utility	£31.99
GB Route Planner	£34.99
Gold Disk Office	£104.99
Pagesetter 2 DTP	£45.99
Pro Page professional DTP	£134.99
Pro Video Plus	£149.99
Sequencer One	£74.99
SuperPlan Spreadsheet	£29.99
Vista	£29.99
Vista Pro (2 Mb required)	£69.99
Walt Disney Animator	£68.99
Xcopy Pro Utilities	£33.99

HARD DRIVES AND RAM

GVP Series 2 Hard Disk Controller Frame

with 8 MEG of unpopulated RAM (uses SIMM 1*8/9 cards) For the **1500/2000.** Ideal for use with Quantum drives

now only £169.99!!

Quantum Hard Drives (requires hard frame)

52 meg....£199.99 105 meg....£369.99

GVP Hard Drives for the A500

Recognised as being probably the best large hard drives for the AMIGA. GVP drives come fitted with fast access Quantum drives and 8 Mb of unpopulated RAM. GVP drives use inexpensive 1 Mb by 9 SIMM modules at only £37.99 per Mb

52 meg......£379.99 105 meg......£669.99

Amiga A590 20 Meg for the A500

inc 2 meg of unpopulated RAM **only £284.99**

or populated to 2 meg of RAM **now only £338.99**

RAM CHIPS

256*4 ideal for A590 & 1 Meg by 1 chips suitable for 8 up boards and others:

QTY
4+ (521K)..........now only £3.99
8+ (1 Mb)...........now only £3.79
16+ (2 Mb)..........now only £3.49

1 Mb by 9 SIMMS

boards as used in GVP and Cortex boards as well as most IBM compatibles

only £37.99

1 Mb by 4 ZIPS

as used in Supra boards.
2 1 Mb by 4 ZIPS equal 1 Mb

only £22.99

DISK DRIVES

Zydec 3.5"

1 meg external drive, high quality low noise and high reliability

only £54.99

Cumana 3.5"

1 meg external drive. The best name in disc drives now at a super low price

only £59.99

NAKSHA MOUSE

This famous Hi-res mouse now comes with Operation Stealth, mouse mat, holder and 2 year warranty

only £24.99

SQUIK MOUSE

very similar to the Naksha but without the extras

only £18.99

MONITORS

Commodore 1084SD1

Colour stereo monitor. 640*256 line resolution, green screen facility, cable for Amiga included

only £239.99

Philips CM8833 MK2

Colour stereo monitor. 640*200 line resolution, green screen facility, **one years on site maintenance, cable for Amiga included**

now only £229.99
or £239.99
with F19 Flight Simulator

CF7 Super VGA Colour monitor

The CF7 monitor is a high quality VGA monitor ideal for making your AMIGA into a professional system

only £369.99
with Flicker Free Video card for the A1500/b2000
or £499.99
with Flicker Free video card for the A500

DISKS

All our disks 3.5" disks are GUARANTEED FOR A LIFETIME and are CERTIFIED 100% ERROR FREE. KAO double sided, double density disks are recognised as being of the highest quality in magnetic media and are extensively used by duplicating houses

	KAO BULK	OR KAO BRANDED
10	£4.99	£6.99
25	£10.99	£13.99
50	£19.99	£25.99
100	£36.99	£44.99
200	£69.99	£84.99
300	£99.99	£124.99
400	£123.99	£159.99
500	£144.99	£189.99
1000	£279.99	£329.99

Disk Labels....500......now only £6.99
Disk Labels...1000.....now only £9.99

EMULATORS

KCS Power board PC/XT emulator comes with Dos 4.01......**now only £199.99**
Amiga 1500 adaptor only £64.99

AT Once emulator turns your Amiga into an IBM AT compatible.............**only £169.99!**

SUPRA RAM EXPANSIONS

The ultimate Amiga A500 expansion. Take your A500 up to 9 Mb Fits onto the side expansion port Auto configured, no software patching

8 Mb pop to 1 Mb.......£109.99
8 Mb pop to 2 Mb.......£136.99
8 Mb pop to 4 Mb.......£239.99
8 Mb pop to 8 Mb.......£389.99

1.5 MEG RAM EXPANSIONS

1.5 MEG POPULATED....£84.99
* Gary board supplied with all expansions boards. If you have a Kickstart 1.2 Amiga the board will be incompatible when populated to 1.5 Mb

Zydec Megaboard populated to 1 Mb this board can be used with your existing 4 chip 512K upgrade to take your Amiga up to 2 Mb in total.........**only £57.99**

512K RAM EXPANSIONS

Top quality *Phoenix* **RAM** expansions for the A500 complete with battery backed clock and on/off switch. **This RAM expansion will not in any way invalidate your Amiga warranty!!** **only £29.99**

MAIL ORDER ?

Order by telephone quoting your credit card number. If paying by cheque please make payable to *FIRST CHOICE*. In any correspondance please quote a contact phone number and post code

TEL. 0532 637988

PLEASE ADDRESS ALL CORRESPONDANCE TO :

DEPT STF, UNIT 8
ARMLEY PARK COURT,
OFF CECIL STREET,
LEEDS, LS12 2AE

WHY FIRST CHOICE ?

* All prices include VAT and fast delivery
* All products are genuine UK spec.
* Free postage UK mainland
* Next day delivery only £3.00 extra !
* Goods despatched same day as order unless otherwise stated.

Personal Cheques Will Require Clearance Before We Can Despatch Your Goods. All Prices Correct At Time Of Going To Press. All Items Listed In Our Advertisments Are Ex Stock Ready To Ship Unless We Advise Otherwise. Computers Are Always Tested Before Despatch. E&OE.

FERGUSON SMITH

'State of the Art technologies for your Amiga'

QUALITY AND PERFORMANCE AT UNBEATABLE PRICES

KEYBOARD GLOVE (NEW)



- Protects your keyboard awhile you type
- Custom made for your Amiga
- Soft, flexible shield
- Fits like a glove, without interfering with keyboard operation
- Antistatic. Puncture, tear & abrasion resistant.

Buy 1 .... £28.15
Buy 3-5 .... Save £5.88 per Glove
Buy 6 or more .... Save £7.05 per Glove

SUPRA A500RX RAM EXPANSION

- 8Mb Board Incl. 2Mb £169
- 8Mb Board Incl. 4Mb £249
- 8Mb Board Incl. 8Mb £379

A500 PLUS RAM EXPANSION (NEW)

A500 Plus 1Mb Chip RAM Module (Easy to install – no soldering)
Populated with 0.5 Meg £39.99
Fully populated 1 Meg £56.99

BARE HARD DRIVES

52Mb Quantum 64kB Cache 11ms £199
105Mb Quantum 64kB Cache 11ms £359

SEIKOSHA 9-PIN PRINTERS

SP-1900 — 80 Column, 192cps, 48cps NLQ, 1k Buffer, 2 Fonts, Parallel Interface, Graphics Resolution 144 x 72 dpi, Free Printer Starter Kit Worth £29.38 .... £116

SP-2000 — 80 Column, 192cps, 48cps NLQ, 21k Buffer, 2 Fonts, Parallel & Serial, Graphics Resolution 144 x 72 dpi, Free Printer Starter Kit Worth £29.38 .... £151

SP-2415 — 136 Column, 240cps, 50cps NLQ, 17.5k Buffer, 5 Fonts, Parallel & Serial, Graphics Resolution 240 x 144 dpi, Free Printer Starter Kit Worth £29.38 .... £245

A500 PLUS ROM SHARER (NEW)

Abolishes software incompatibility encountered with the new A500 Plus ROM 2.04. Allows easy switching between Kickstarts 1.3 & 2.0
ROM SHARER £29.99
Kickstart 1.3 .... £39.99

NEW MEGAMIX BOARD A2000 RAM EXPANSION

- RAM Card expandable to 8Mb
- Autoconfiguring
- On/Off Switch
- Zero Wait States
- Made In Germany

2Mb Installed £167
8Mb Installed £374
GVP RAM 8.2 Meg Fitted £175

GVP A2000 RAM EXPANSION

8/2Mb Installed £175

GVP SERIES 2 HARD DRIVES



- High Speed "FAASTROM" Controller
- Up to 8Mb SIMMs FastRAM On Board
- Autobooting
- Throughport to Six SCSI devices
- "FASTPREP" Installation Software

52Mb + 8Mb RAM Board **£385**
105Mb + 8Mb RAM Board **£585**

SEIKOSHA 24-PIN PRINTERS

SL-92 — 80 Column, 240cps, 80cps NLQ, 44k Buffer, 2 Fonts, Parallel Interface, Graphics Resolution 360 x 360 dpi, Free Printer Starter Kit Worth £29.38 .... £222

SL-210 — 80 Column, 324cps, 108cps NLQ, 5k Buffer, 9 Fonts, Parallel & Serial, Graphics Resolution 360 x 360 dpi, Free Printer Starter Kit Worth £29.38 .... £433

PRINTER STARTER KIT

200 Sheets of Quality Continuous Paper
3.5" Disk with Printer Drivers
5 Samples of Continuous Envelopes
1.8m Parallel Cable
100 Address Envelopes £29.38

GOLEM MASTERPIECE TURBOCARD (NEW)



- 68030 Processor (16Mhz) + 68882 Co-processor (16/33Mhz)
- External for A500, Slot for A2000
- 2Mb FastRAM, expandable to 16Mb – Autoconfiguring
- Fallback Mode via Switch

£599

GVP SERIES 2 HARD CARD

- High Speed "FAASTROM" Controller
- Up to 8Mb SIMMs On Board
- Autobooting
- Supports External SCSI Devices
- FASTPREP Installation Software

52Mb + 8Mb RAM Board £289
105Mb + 8Mb RAM Board £489
Hard Card 0/8Mb SIMMs £169

GVP 'Combo' Boards

- 68030 Processor + 68882 Maths co processor 22MHz, 33MHz or 50MHz
- 22Mhz comes with 1Mb RAM (SIMMs) exp to 13Mb
- 33Mhz comes with 4Mb RAM (SIMMs) exp to 16Mb
- 50Mhz comes with 4Mb RAM (SIMMs) exp to 32Mb
- SCSI 2 Interface connects to 68030

22Mhz 1Mb RAM (Simm)/13Mb **£589**
33Mhz 4Mb RAM (Simm)/16Mb **£1199**
50Mhz 4Mb RAM (Simm)/32Mb **£1659**

A2630 TURBO CARD

- 68030/68882 25Mhz
- Original Commodore
- Comes with 2Mb 32 Bit RAM exp to 4Mb

£880

ACCELERATOR RAM UPGRADES

SIMM 32 1Mb 60ns £69
SIMM 32 4Mb 60ns £249

REMOVABLE MEDIA DRIVES

Ricoh 50Mb Drive £799
Ricoh 50Mb Cartridge £119

ALL PRICES INCLUDE VAT, P&P
Prices subject to change without notice. E&OE

FERGUSON SMITH
14 Dowanside Road, Glasgow G12 9DA

Tel: 041 339 3590
10am to 6pm Monday to Friday
10am to 2pm Saturday

A COMPLETE RANGE OF PRODUCTS AVAILABLE FOR THE AMIGA – CALL FOR UNBEATABLE PRICES!

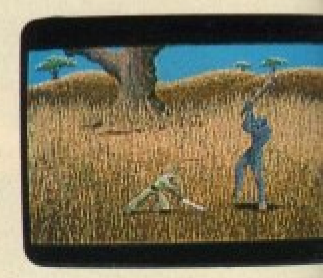

IT'S GRIM UP NORTH...
ISSUE FOUR • JANUARY 1992
AMIGA GAMER
NEWS...CHARTS...PREVIEWS...CHEATS
TARMAC TORMENT FROM MICROPROSE
FORMULA ONE GRAND PRIX

MOONSTONE
A HARD DAYS KNIGHT

FREE POSTER IN GAME PACK







SO MUCH FUN –YOU'LL DIE!

Moonstone - a remarkable combination of fast, aggressive combat action and subtle role-play set in a fantasy world, that uniquely challenges your brain and your reflexes - while covering you in gore.

Oh, by the way, if the sight of so much blood upsets you, don't worry. The blood is an option!

Moonstone features nearly 1,000 frames of incredible animation in 2 Megabytes of monsters and creatures, over 60 beautifully painted backdrops and detailed scenery. Sound effects are high quality digital samples and includes a full musical score and stunning full screen animated introductory and game complete sequences.

12

Moonstone contains scenes of strong graphic imagery with particular realism. Although these scenes are optional, this product is voluntarily rated 12. Parental Guidance is recommended for younger players, however this is not a legal requirement.

MINDSCAPE

For your local dealer, contact: Mindscape International Ltd, The Coach House, Hooklands Estate, Scaynes Hill, West Sussex RH17 7NG. Tel: 0444 831 761

GAMER inner VISION

So here it is – Merry Christmas

REVIEWS
FAST • FRANK • FAIR

ALIEN BREED 6
Nothing to do with Aliens or Gauntlet. Oh no! Not this one, no sir!

SEVEN COLOURS 8
Strategic puzzling in a Dorothy and Toto kind of way

FIRST SAMURAI 10
Muscles and swordplay, and all because the Sushi wasn't cooked

SUPER SPACE INVADERS 13
A new twist to an old theme, or an old twist to a new theme. Or something

FORMULA ONE GRAND PRIX 14
Flame suits and tyre-warmers akimbo in this ace simulation

THE BLUES BROTHERS 18
They're putting the band back together but for some reason it involves a platform game (?)

SILENT SERVICE II 18
Run silent, run deep, run scared witless, as the captain of the HMS Microprose submarine

HEIMDALL 22
Rape, pillage, plunder and all that entrepreneurial stuff

ROBOCOD 24
James Pond returns as a fish with an iron lung

MICROPROSE GOLF...28
More of a driving game than you might think (ha ha)

REGULARS

onword 4
More Amiga games news than you could possibly shake a stick, nay a branch, nay a whole tree at! And Gamer tells you everything you need to know about life, the universe and the games industry.

talking shop 16
The Gallup Top 40 Amiga games chart plus some ill-informed waffle from Jools (well actually he's quite good but if you tell him he gets a bit carried away)

cheat mode 30
No friends because you can't play games? Is your washing not as white as it should be? Gamer has the answer, with added HakPak!

ONword

What's hot and what's not. Gamer spills the beans on the latest from the Amiga games scene

SPACE CRUSADE – Gremlin

A year after the board game success of Hero-Quest, Milton Bradley came up with the more advanced, hi-tech board game, Space Crusade. Gremlin, having done a fine job on Hero-Quest, quickly signed up to do the biz on its successor.

You have enlisted in the Space Marines and it is up to you and your men to face up to the forces of Chaos as they try to take command of the floating space hulks tumbling through space.



If they gain control and use the space hulks to attack the Earth things could start getting sticky. Only the Marines are capable of facing up to the menace that confronts them aboard these abandoned vessels.

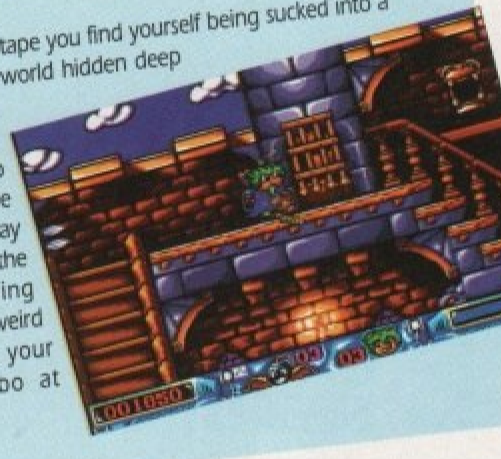
Success will bring honour from on high as your career progresses during the course of the computer missions – failure will bring ignominy and pain, and small children will laugh at you in the street.

Available before Christmas at £25.99.

VIDEOKID – Gremlin

In VideoKid (sic) you play the part of one of those sad teenagers who watches little but television, and to say you were chuffed when your folks bought a brand new video would be an understatement akin to saying Stalin wasn't a nice man.

As you sit down to watch a tape you find yourself being sucked into a five level arcade shoot-'em-up world hidden deep inside your state-of-the-art video (these Japs eh?).



Any road, you have no choice but to pick up those power-ups and blast your way through five time zones to the relative safety of your living room. Look out for some weird graphics when it comes your way just before Crimbo at £25.99.

ACTION PACK – Action Sixteen

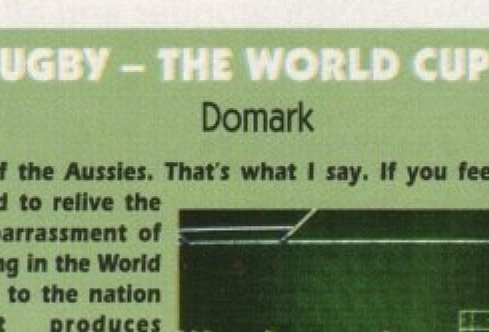
Coming out on the Action Sixteen label is a new compilation called the Action Pack. It features ten so-called "classics" from the dim and distant past of the last few years of 16-bit games. They all seem to have received fairly high ratings, but mainly from mags I've never heard of (there's one there called Amiga Computing!). Mind you, Hostages is there which is pretty fine and so, by all accounts, is Rotor. Even then, 10 games for £27 sounds like good value to me. Available now at £26.99.

MIG-29 Superfulcrum – Domark

Hot on the heels (well a year since) the original MiG-29 sim from Domark comes the sim of the sequel to the original plane. MiG-29 Superfulcrum is the updated version with cockpit technology more akin to the 80s than the 60s and featuring a modified air-frame to make you even more invincible in a dogfight.

You fly as a crack Soviet pilot embroiled in an ongoing campaign against an unnamed enemy as you defend a friendly South American nation from attack.

Drugs have nothing to do with it.



TEENAGE MUTANT HERO TURTLES II – Image Works

April's been kidnapped and languishes at the top of a burning building, Pizza Hut has gone bankrupt and the world fuel shortage means that no one can afford to deliver.

This is how the coin-op starts (except that I lied about the last two bits), throwing Michaelangelo, Leonardo, Raphael and the other one into a heady world of flames, huge cannon-balls, masked men and anchovies as they try to rescue April from the clutches of lots of evil Chinamen.

Developed by Probe, the 16-bit conversion follows the plot and gameplay of the original arcade machine to the letter. Hopefully, for Image Works at least, it can emulate the success of the original.



They're mean, they're green and they're back!



Can the Turtles defeat Shredder and his evil foot clan again?

RUGBY – THE WORLD CUP – Domark

Stuff the Aussies. That's what I say. If you feel the need to relive the embarrassment of losing in the World Cup to the nation that produces Home and Away then this is the game for you. Described by some as the trouser-droppers' equivalent to Kick-Off it is available now at £25.99 from Domark.





Knightmare
"You are setting forth into another place, another time, another world," said Treguard, The Dungeon Master. "And what makes you think that you four mere mortals will succeed in the Quest, when so many others have failed?"
I understood, at that moment, that our mission was going to take all our endurance, all our collective skill, and, most of all a depth of courage, that I wasn't sure we possessed.
Ever since ITV's award-winning series hit our screens, the world has been waiting for a computer game worthy of the name. The wait is over.
Tony Crowther's amazing re-creation has everything.
Using the same game system that made 'Captive' adventure game of the year for 1990, 'Knightmare' makes dungeons and dragons games seem like newts splashing around in a muddy puddle.
'Knightmare' is a sophisticated role-playing adventure where you are challenged to solve complex puzzles, logic problems and riddles that reveal a rich, ever-more rewarding storyline.
Your journey takes you deep into the dungeons of Dunshelm, to a cataclysmic meeting with Lord Fear and the unthinkably horrible FrightKnight.
Whether or not the meeting is terminal is up to you. You will need wisdom, tenacity, alacrity and, above all, courage.
But you have all those things, don't you...?
CAPTIVE GAME SYSTEM
BROADSWORD
Available for Amiga & Atari ST
Knightmare is copyright Anglia Television and Broadsword Television.
Game copyright 1991 Mindscape International Limited.
Captive Copyright 1990, 1991 Mindscape International Limited, all rights reserved.
Written by Tony Crowther.
MINDSCAPE
ANGLIA
Television Limited
For your local dealer, contact: Mindscape International Ltd, The Coach House, Hooklands Estate, Scaynes Hill, West Sussex RH17 7NG Tel: 0444 831 761



A face to face confrontation with death



"Now look Stone, you either stop hiding up there, or I'll blow your lips off."

Shouldr your assault cannon and face the

ALIEN BREED

GREMLIN • £29.99 • 1 meg only • Joystick • Out now

When contact was lost with the ISRC-4 Space Research Centre, the big cheeses at the Interplanetary Corps got a little bit jumpy. After all, they'd all seen Aliens at least twenty times and were starting to get an acute feeling of déjà vu. So, better safe than sorry, they rerouted two of their toughest marines from their earthbound course to investigate.

Having their voyage home interrupted to check out some stupid Research Centre did nothing for Johnson and Stone's already violent temperament, and they docked with the station in a pretty grumpy mood.

Disembarking from the shuttle they were greeted not by a gaggle of bemused scientists, but by an eerie silence. They started to move into the tomb-like Research Centre, guns at the ready. Circuitry hung, torn from the walls, like entrails. An acrid acidic stench hung in the air. The motion tracker started it's haunting beep.

"Blimey, this is just like Aliens isn't it?" commented Stone.

"Yes, our current situation is rather reminiscent of that cult sci-fi thriller, directed by James Cameron of Terminator 2 fame, in which a handful of space marines investigate an abandoned colony and get eaten by slavering, biomechanical creatures." replied Johnson.

"Like those slavering, biomechanical creatures over there?" asked Stone, noticing the swarm of razor-toothed armoured killing machines scuttling towards them.

"Yes, those are the ones," Johnson called over his shoulder as he legged it back to the shuttle, a strange smell emanating from his trouser regions.

"Thought so. Urk." said Stone as the slavering, biomechanical creatures tucked into their dinner.

Yes, boys and girls, Alien Breed is possibly, only possibly mind you, inspired by that top movie, Aliens. It's just the vibes I'm getting from the game. It's not just that the plot's the same, or that the alien graphics look identical to H R Giger's Alien design, or that the front cover of the game features a drooling likeness of said Alien.

No, it's just that I'm getting these little voices in my head whispering "Aliens, Aliens" over and over again while I'm playing it. In fact, I'm going to stick my neck out and declare that Alien Breed is blatantly Alienesque. Probably.

Not that it's a bad thing to nick the idea behind Aliens for a game, 'cos all that skulking around and blowing smeggy Aliens to pieces is bloody good fun. In fact, seeing as Activision made such a pig's ear of the official Aliens game, this could be just the ticket for all you gore-starved Aliens fans.

First of all, the presentation is excellent. You get the obligatory story disk featuring some nice cartoon stills and some pulsating ray traced space ships, but this is a standalone disk and needn't be sat through every time you play the game. The story disk is good fun, but ultimately cosmetic as it tells you nothing that you couldn't read in the instructions. Nice touch though.

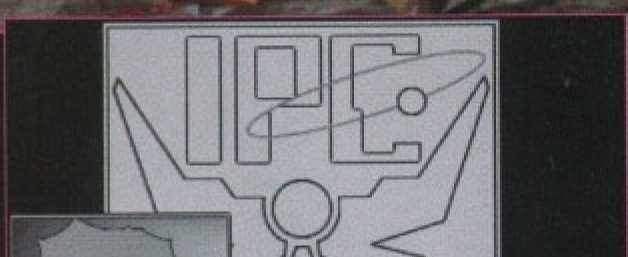
Once in the game proper, the emphasis is on atmosphere. The graphics are nicely detailed and recreate the claustrophobia that's needed to keep the suspense going, but without restricting your movement. The alien sprites are, believe it or not, rather Alien-ish in appearance, as are the tiny face hugger things that zip around and bite your ankles.

Keep your eyes open for the aliens who punch through from lower levels and climb up through the floor. They may look great but they're a tad on the deadly side.

The graphics of the two marines are good as well, especially the way the blasts from their guns flickers over their faces. Rather than see the bullets fly across the screen, you just see the muzzle flash and the little explosions as the



The marines arrive in the derelict research centre, ready for action



Stone and Johnson. Marines-R-Us





The aliens at their heels, our heroes make a dash for the lift



Shoppers paradise! Arc Laser Rifle anyone?

bullets hit their target. This, while only a little touch, adds a great deal to the realism and the beefy gun FX make it hard to resist bellowing lines from Aliens at the top of your voice as you rip into a corridor full of monsters.

Also included is some soft, sultry speech that calmly tells you that you're about to die, or that you've run out of ammo. Add a stonking tune, and you've got a package that's more attractive than a gift-wrapped Winona Ryder.

There are plenty of features to keep you busy while you try and stay alive. Each level has an objective which must be completed before you can move down to the next.

Level one is simply a case of making a dash for the lift from the shuttle, with the aliens at your heels, while level two requires you to destroy the reactor and escape before it blows.

Erm, that's as far as I can get actually, but I'm sure the other levels are just as buttock-tightening. To help you in your missions you can find keys, ammo, first aid and credits lying around the corridors, and every now and then you'll discover an Intex Terminal where you can log on for some info on the current level, buy new weapons and tools, and even enjoy a quick game of bat and ball!

All is not roses though, as there are many hazards to avoid, as well as the aliens. One-way energy doors, uneven floors that slow you down and pools of acid are just a few of them. There are also emergency doors that slam shut if their control panels are destroyed, which can be used to your advantage, but can often leave you trapped.

Despite all the wonderful cosmetic bits, it's the gameplay that really shines through. Two-player mode is by far the best as it becomes a race to get to all the collectable goodies before your mate, and the race to the exit can become really frantic as you dive into the elevators with hordes of hungry aliens behind you.

If you're a thoroughly "nice" person then you can opt to share all the collected credits, so it needn't be the one who grabs all the cash who gets the best power-ups. Strictly for wimps of course, but it does make it easier to save up for the really bitchin' weapons.

The difficulty is set just right, with the first level acting as a perfect introduction to the game. The second level is a lot harder, but unlike most other games of this genre, you won't care. Just playing the game is fun enough.

Firmly in the tradition of Gauntlet and Crackdown, but with the action and atmosphere of the Alien movies, Alien Breed is a game worth selling your family for. Tippex the "Breed" bit off the box and just pretend that it is Aliens. Buy it this instant.

Daniel

VISION
GGGG
Nicely detailed and dripping with molecular acid.

AUDIO
GGG
Nice speech, thundering FX.

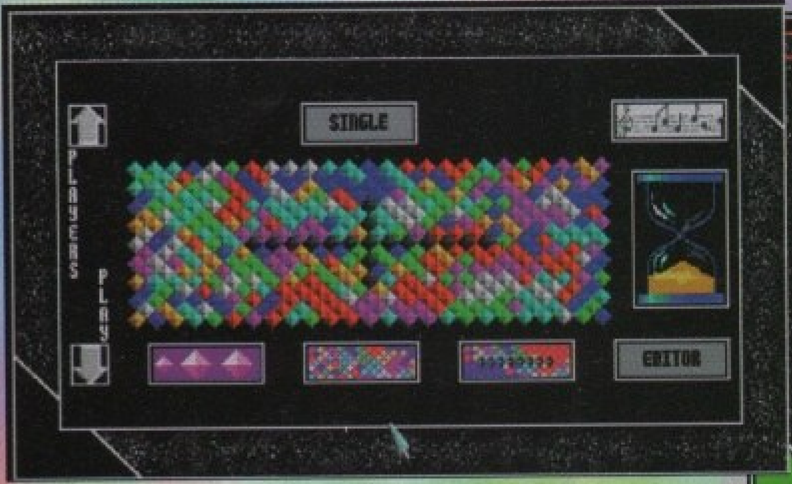
PLAYABILITY
GGGG
Your chance to play at Aliens. Who could resist?

ADDICTION
GGGG
Tense, explosive action all the way.

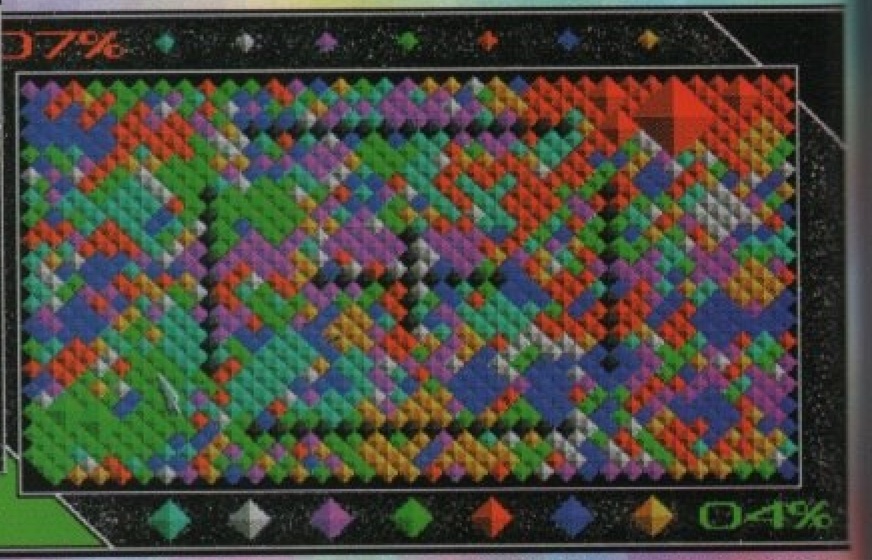
91%



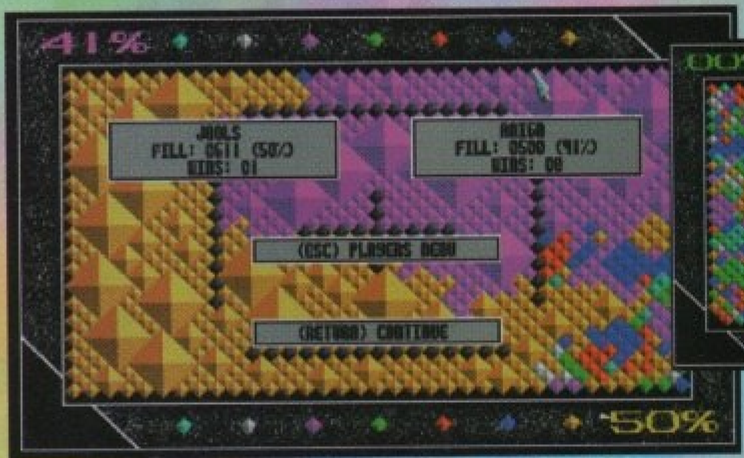
Things get frantic as the aliens gang up on the last surviving soldier

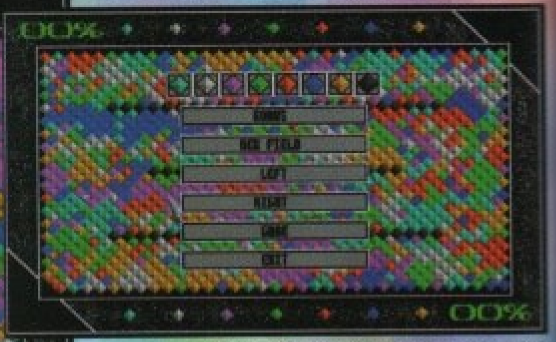


From here, all your options can be exercised



It really is far more interesting than it looks





You even get the chance to completely design all your own levels

The winner! Jools takes on the mighty processing power of the Amiga

Strategically speaking it could be quite puzzling...

7 COLORS

INFOGRAMES ▪ £25.99 ▪ ½ meg ▪ Mouse ▪ Out now

In a chess-playing kind of way, 7 Colors (sic) is one of those abstract concepts that means next to nothing to just about everyone except the guy who invented it, and it only means anything to him when he's at the wrong end of eight pints of Gold Label.

But if we choose to ignore the abstract comment on the all-consuming nature of today's society, in a patronising Open University kind of way, we can take the game on a superficial, mechanical level and look at it from that point of view.

The concept is simple – the board is made up of randomly distributed blocks of multicoloured diamonds, each of which is one of the seven colours. Starting from a point opposite your computer or human opponent you will be in possession of one diamond of one colour. Your first move will be to change your diamond to another colour, but not that of your opponent.

If you have chosen wisely a diamond of this chosen colour will be adjacent to the one you possess meaning that you now have two of one colour. There will be other diamonds of this colour but only the ones connected by a full face to your original diamond will be in your possession. And so you progress across the board by selecting colours that will add to your "territory".

Confused? You will be. On top of all this any diamonds of miscellaneous colours that become trapped by your diamonds will become diamonds of your colour.

With the overall aim being to capture over 50 per cent of the play area this strategy may suggest a plan of action that involves capturing a thin string of diamonds across the board so that when they meet the far edge of the play area, all the multi-coloured diamonds trapped by this "string" will become yours.

The game is also timed in a see-saw manner – as your time drops your opponents builds up, so if you get really quick for a succession of moves then the situation may arise where your foe has little or no time to make a move.

But wait! There is even more to confuse you with. The game will also include barriers on some levels which you have to work around to conquer the areas you need, making it just that little bit more complex. The scoring system is suitably confusing, in the usual communist way.

You begin with score of 300, and as you win or lose this score is adjusted and saved to disk after each game, until a league is established with various people who have come across your Amiga and decided to play 7 Colors. Unlikely yes, but a very New Age, love the neighbours kind of concept that could happen in the enlightened nineties.

Despite the apparent complexities that probably have you blithering into your coffee at this very moment it is at least seven dozen times easier to play than it is to describe, and enjoyable in that bizarre Infogrames kind of way that kept me engrossed with Alpha Waves for ages.

As you get more and more into it, working your way up through the levels against the computer, little strategies start emerging and it slowly becomes surprisingly addictive. Not "keep you awake at night" addictive – but then those games suffer a very early burn out – but a "casual relationship" addictive that will always be fresh when you come back to play it.

Well worth it purely to build up the collection and impress your mates.

Jools



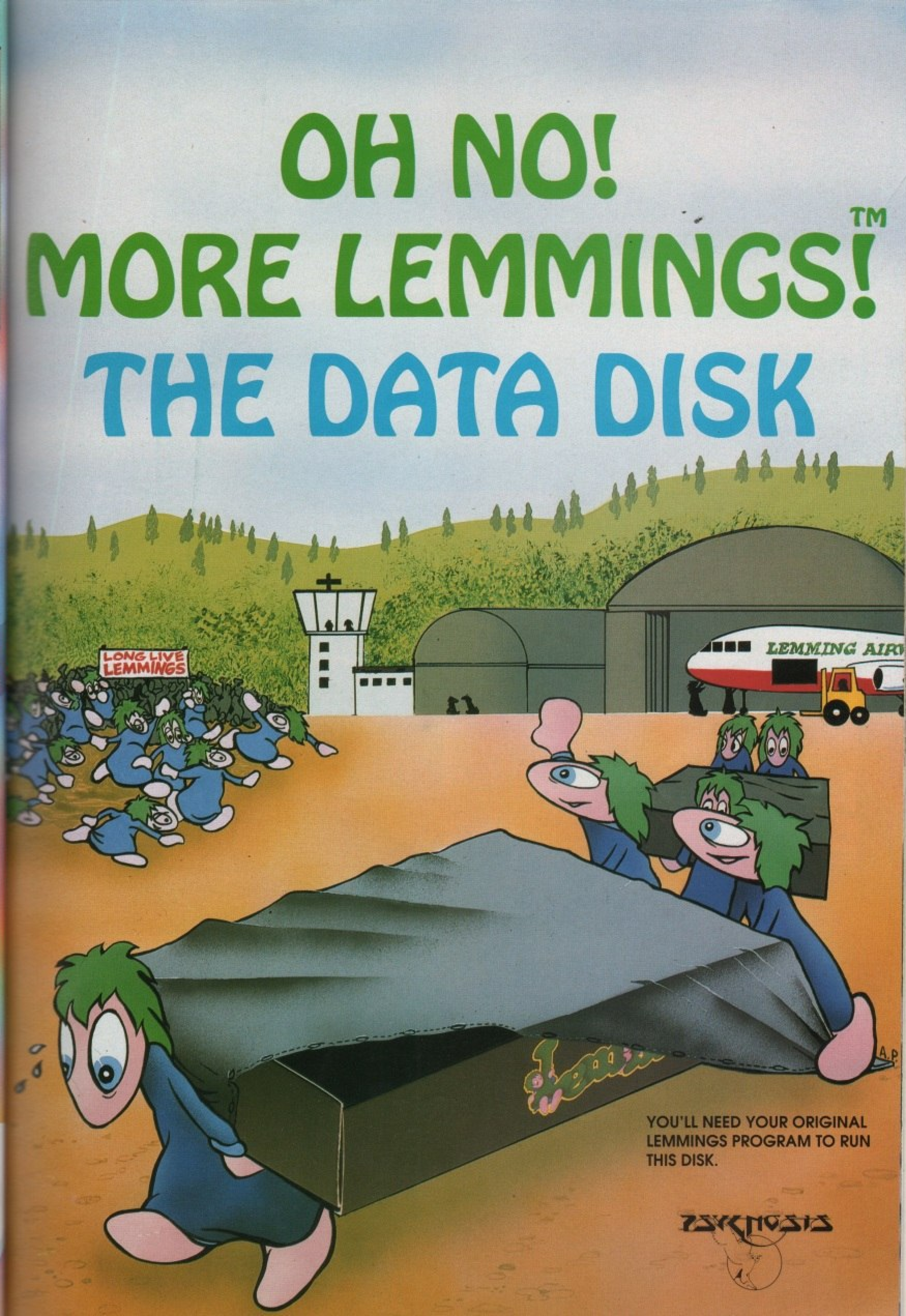
VISION GGG
Nicely presented but nothing special.

AUDIO GGG
Mellow tune to sooth the nerves.

PLAYABILITY GGGGG
Dead easy (honest) and good for the mind.

ADDICTION GGGG
You'll always be able to come back to it.

80%


OH NO!
MORE LEMMINGS!™
THE DATA DISK
LONG LIVE LEMMINGS
YOU'LL NEED YOUR ORIGINAL LEMMINGS PROGRAM TO RUN THIS DISK.
PSYGNOSIS

Bulging biceps and loose-fitting loon-pants in...

FIRST SAMURAI

IMAGE WORKS • £25.99 • ½ meg • Joystick • Out now

Deep in the tranquil countryside of ancient Japan, Lord Akira (who by a strange twist of fate has the same name as the teenage cult cartoon movie hero from the same part of the world) and his young Samurai were collecting taxes from the local peasants when they began to believe something was up. Yes, something was definitely up.

Now all you revolutionaries out there may be of the opinion that anybody who collects taxes from the villagers in a crypto-fascist kind of way deserves to die in the most painful way possible. Eaten alive by rats, that kind of thing. But this is no morality tale, no. What was up was this....

The Demon King had come down from the mountain, in a game show kind of way. This was not a nice man and he went on to prove this by burning the village with his magic powers, killing all the peasants, raping all the pigs and eating all the women, or something. You see? If this guy had been a real socialist revolutionary he wouldn't have wiped out the village.

Having wasted the village completely with one click of his horrendously gnarled fingers he turned his attention to the Warrior Lord. Then he killed him.

The young Samurai could do little against the evil magic of the Demon King – his master had not given him instruction in such things. Perhaps if he had things might be different. Fortunately, the Demon King spared the Samurai's life, realising he could be



of more use spreading the word about what happened on this black, black day. What a mistake.

The young Samurai knew he had to avenge the death of his master who had been like a father to him. Hearing of the victory of the Demon King, Wizard Mage (the good guy) returned from sea and fought a battle for the good people of the area.

Atop the mountain they fought, lightning, fire and expletives setting the night alight. The Demon King, being a bad guy and therefore a coward, feared defeat and disappeared into the future.

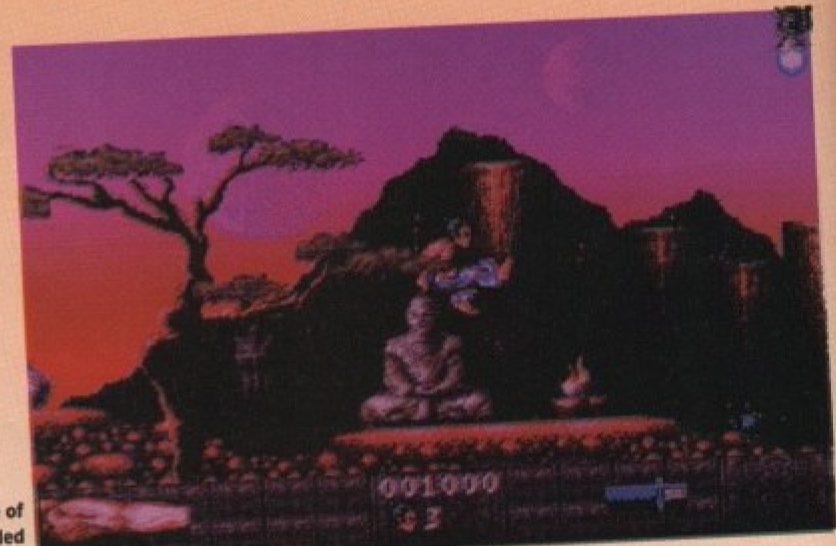
The people were now safe but the young Samurai knew that his soul could not rest until he had beaten the living crap of the Demon King, but he had to persuade Wizard Mage to help him. Only he could teach him the magic of time travel, and only he could teach him how to catch flies with chopsticks.

After many years of training, the young Samurai was ready for the trek to the Japan of the 24th century, to capture the Demon King and bring him back to this land and time – where he can be sacrificed.

Ten levels of stylish beat-'em-up action ensue, with our hero making the most of the magical energy he can pick up on the way to maximise his potential as a Samurai.

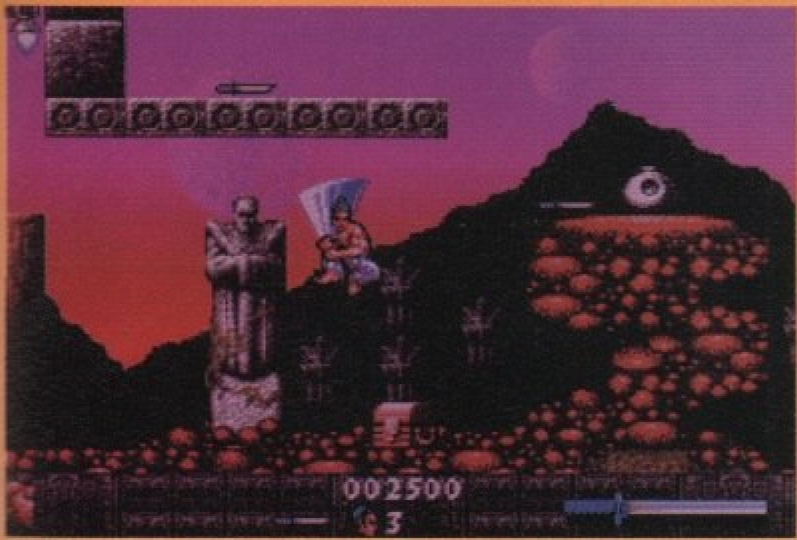
The hero has two power indicators shown, with other info, at the bottom of the screen. On the left is an arm, which when fully visible shows that physical strength is at maximum. Strength is lost when a hit is taken, and regenerated when food is picked up.

On the right is a sword which when fully shown means that spiritual strength is fully topped up, allowing certain actions to be performed. When spiritual



Prancing in front of a statue of Buddha is not to be recommended for the religious among you





A flying leap to impress your spiritual leader



Sword-swiping at the enemy in the Japanese countryside

strength is low it means that the player loses the use of his sword until such time as the energy picked up by killing enemies replenishes the meter enough to warrant its return.

Other weapons can be picked up such as daggers, bombs, and grenades all of which have a very limited lifespan. The current one will be displayed just to the right of the physical strength bar.

The control method works extremely well. The usual fire and move is there but it is a side effect of the proper system. This works by the player holding the Fire button and moving the joystick to instigate different moves.. Either system is just as effective but the latter is the best. It gives great scope for fluking together a series of moves in mid-air, knocking out a load of enemies coming from all directions, shaving, picking your nose and landing – in one piece.

All of this came about from a few waggles of the joystick and was completely unintentional, but it looks so smooth and flash that it would be dead easy to convince your mates otherwise.

On top of all this beating, hacking and slashing, certain objects must be collected to make sure the level is completed. These are called specials and are essentially a thanks to Wizard Mage for being such a decent bloke. They are often well hidden and a certain number must be found.

Another item essential to the completion of the levels is the bell. It can only be picked up if your spiritual energy is up to the required level. It may seem strange but as it is used to summon Wizard Mage, you need a bit of magic to do it. But why, I hear you call, do you need to summon him at all?

Well at certain points in the level an insurmountable obstacle will be encountered. The trick is to ring the bell and Wizard Mage will appear to work his magic so that the obstacle is overcome.

If you don't suss that this is what you have to do the first time you come across the problem, every next time you get there Wizard Mage's face will appear in a ghostly apparition kind of manner to hint at what's going on.

As you progress through the 10 levels the enemies become more aggressive and imaginative, until by the end of the game it becomes a real hassle to beat everything up and still fulfil the objectives – just how it should be.

The first thing that hits you about the game though, even before you get to the rather attractive gameplay, are the exceptionally gorgeous graphics. Ace backgrounds – they seem to have found about fifty more scan lines from somewhere – an excellent intro taken straight from Japanese porcelain, and detail in the levels and characters that matches anything else on the market. The sound is pretty fab as well. After the upbeat intro disk you come to the game and as soon as you make a move or hit something it becomes clear how super–duper it actually is. As you hit an opponent an orchestral stab is released, with the next hit producing one of a slightly higher pitch. This gives a succession of hits a really epic, Gillette TV advert effect that really drives you on to strike out and be as effective as possible with your sword.



The two whirring balls can be hit back at the offending nasty

And if you get to the treasure or food, a resounding sample from the Hallelujah Chorus results, giving a real sense of achievement. This does get marred by a rather naff tune that fades in if you don't do anything for a few seconds. Clearly a big incentive to keep moving. Speech plays a part as well. If the hero loses his sword because of a lack of mystical energy he will cry "Oh no! My Sword!" in a very Bruce Lee manner that befits the atmosphere. All of these aspects combine to make it highly addictive. An early demo was played to death by the advertising staff here, and it's well worth £26 of anyone's money. Especially if it's somebody else's.

Its style is far more frantic and action based than that of its main Christmas opponent from Psygnosis, whose emphasis is more on exploration and accuracy with movement than violence. That considered, it is probably the best scrolling beat-'em-up to appear on the Amiga – so far.

Jools

VISION GGGGG
Charming sprites and terrific backgrounds.

AUDIO GGG
Superb effects but the tune marrs it slightly

PLAYABILITY GGGGG
Cripes! It knocked me socks off.

ADDICTION GGGGG
That Demon King shouldn't rest because you certainly won't.

94%






ACTION PACK
Action
SIXTEEN

They're back – and this time they're a bit miffed

SUPER SPACE INVADERS

DOMARK ▪ £25.99 ▪ 1/2 meg ▪ Joystick ▪ Out now

Everybody knows just about all there is to know about Space Invaders. It is basically the game that launched a hundred clones, a thousand addicts and ten thousand petty thefts as kids robbed their grandparents to pay for it. Ultimately I guess that without that game I wouldn't be in this job. I'll kill the guy responsible if ever I meet him.

This time around though, the scenario is slightly different. Eighty years hence the last remaining Space Invaders machines have been cast into space. The earth just ran out of room for them and since everyone was capable of beating the things five minutes after birth it seemed pointless keeping them hanging around.

After all, this space could be used to house 50 families in the biological equivalent of a file-archiving system developed by a scientist searching for a cure for AIDS.

One such machine collided with a satellite and careered off into deep space. Light years later a cosmic bag-lady found the machine and decided to flog it to the authorities.

They analysed it and decided that the tactics used by the aliens on the machine could be adapted to make a perfectly usable strategy for wiping out the population of a planet. With a finely honed sense of irony the aliens decided to give it a try on the planet from which the machine came – Earth.

This brings us back to the age old scenario – the earth is under threat from a race of aliens and you are the poor schmuck who has to throw away his life trying to save everyone else.

But the twist is that these aliens are only marginally less thick than the originals. This means that they still hang around in big groups and are reliant on huge numbers slowing down the processor enough to make them look as though they are moving really fast.

In another act of crass stupidity they have motherships which instead of just giving you points give you power-ups as well. I mean, stupid or what? – giving the opposition weapons is really thick! It's like selling arms to Iraq or Libya.

Apart from that, the gameplay remains much the same. There are new attack patterns but the basic idea of stopping the aliens from reaching the ground is still there.

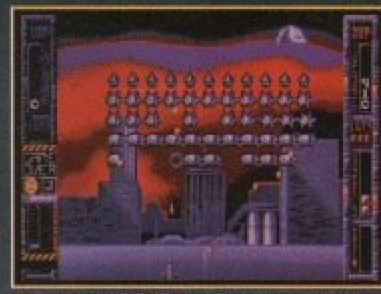
The big change comes in the graphics. A wide range of alien spacecraft compete against grotesque creatures for the Most Garish Alien Thingy award. And all this action generally takes place on full colour backgrounds that make my favourite shirt look tame.

So, does it maintain the tradition? Despite the graphics, sound and ace cartoon intro it lacks a certain something. The addictive qualities of the original are not there, probably because the simplicity has gone.

The other strange thing is that a little variety seems to be worse than none at all in this game. You notice the same aliens reappear, the same power-ups and it all begins to get just that little bit boring. The original was OK because you expected it to be the same. This version puts variety on the agenda and fails to fulfil its obligations to diversity and present a general difference of style.

So, it is nowhere near as good as the original, and nowhere near as good as a lot of other games, but it happily diverts the odd fifteen minutes or so every now and then. But then so does a cup of tea.

Jools



The first wave that you have to defend the Earth from. If you let them past then you really are a complete waster



Erm, some blue ones to compete with now



The bonus level sees you rescuing a herd of cows from aliens. I have no idea why...

VISION
New and improved backgrounds.

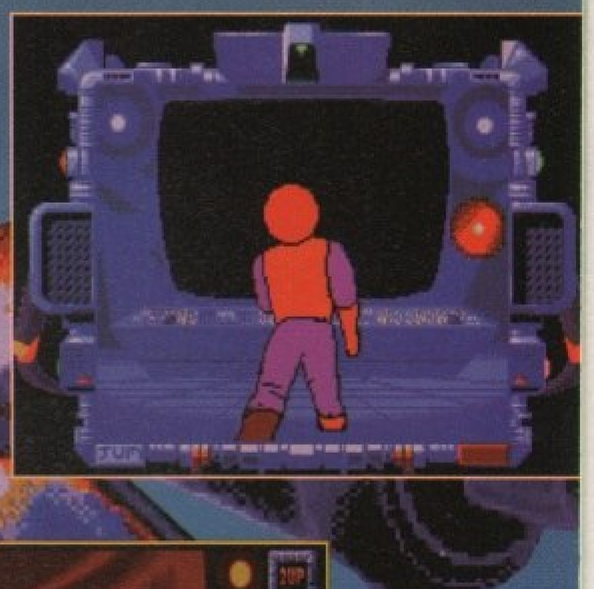
AUDIO
Better than dum-dum-dum-dum...

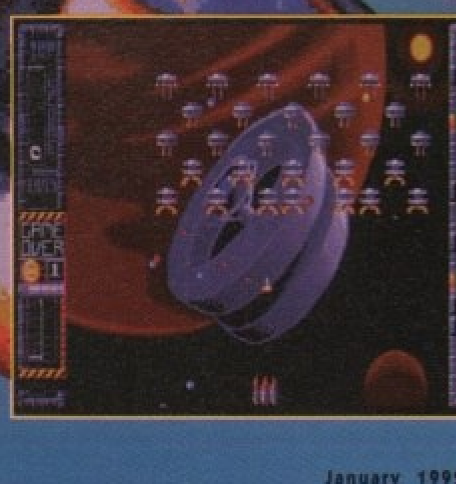
PLAYABILITY
Simple but effective.

ADDICTION
Hardly Coronation Street, but not bad.

70%







Anything Mansell can do you can do better

FORMULA ONE

MICROPROSE ▪ £34.99 ▪ 1 meg ▪ Joystick ▪ Out December

In the long and honourable history of racing games/simulations, attempts have been made to capture the behaviour of the car as much as possible. As we enter 1992 the programming know-how is there, in a number of places, to faithfully reproduce the behaviour of a Formula One Grand Prix car.

Up until now though, no-one has ever accurately represented the 16 Formula One tracks of the championship tournament – no one, that is, until Geoff Crammond began work on Formula One Grand Prix for Microprose.

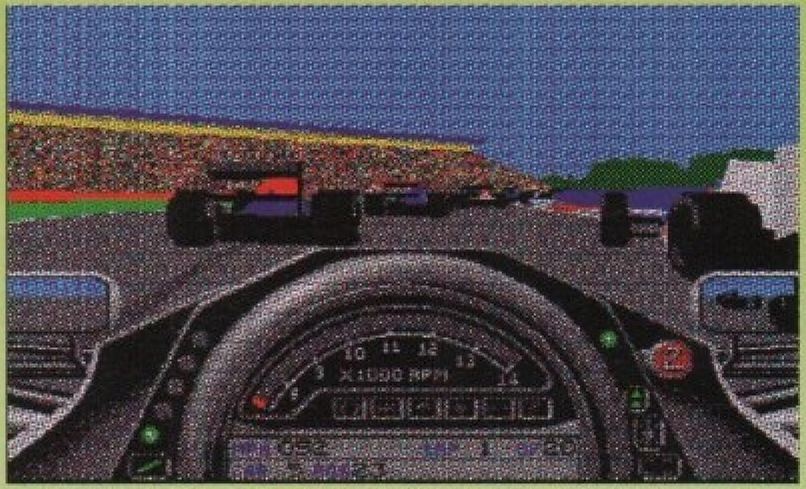
Building a reputation on Revs for the BBC Micro some years ago, a game which Acorn users the nation over swear by, he then went on to do Stunt Car Racer, a game that won him the same acclaim from 16-bit owners as he received from Beeb owners before. Since then he's been working on this, the game that puts you into the driving seat of a six gear, normally aspirated 200mph plus racing machine, and frankly it scares the pants off me.

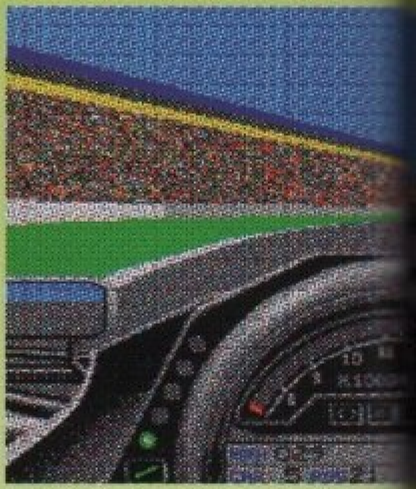


Strictly speaking this is a simulation – that's why it is being published on the Microprose label, and once you get into it and discover the attention to detail you'll understand why.

The game begins in the pits as you prepare to qualify for the race ahead. Don't panic though, no matter how bad you do you will always qualify for the race. This 120 minute qualifying section gives you a chance to get used to the track and mess around with the car's set-up.

Four variables can be, erm, varied on the car – tyres, brake balance, downforce from the wings and gear ratios.

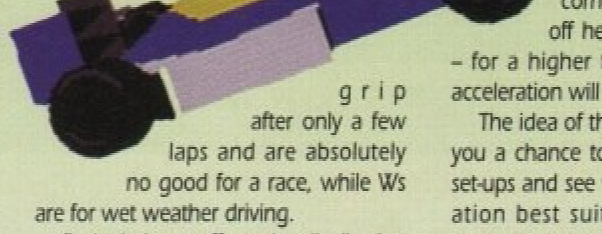




The first corner always sorts out the men from the boys

While the car does have default settings for each of these parameters, it is always better to have a twiddle yourself as the car's performance can be increased greatly.

There are six options for tyre choice – A to D are the four dry racing tyres ranging from hard to soft, Q are the very soft qualifying tyres that give a good speed but disintegrate and lose grip after only a few laps and are absolutely no good for a race, while Ws are for wet weather driving.



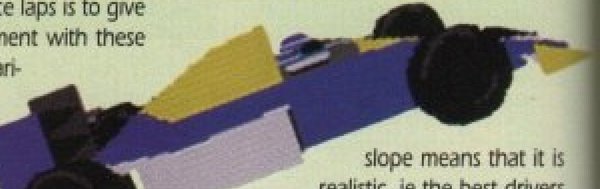
Brake balance affects the distribution of the total braking force between the front and the back axles, altering the way the car behaves on braking. The type of corners on a certain track will determine the way this parameter is changed. The amount of downforce is also crucial – the more downforce, the better the cars holds the road on corners, but the top speed is lessened, so a track with a lot of tight corners – Monaco for example – would need a lot of downforce whereas a track with a long straight, like Hockenheim, would require less downforce to increase the top speed.

Gear ratios have much the same considerations, with winding tracks needing more low-end acceleration to come out of the corners faster, but the trade-off here is a lower top speed – for a higher top speed the low-end acceleration will have to suffer.

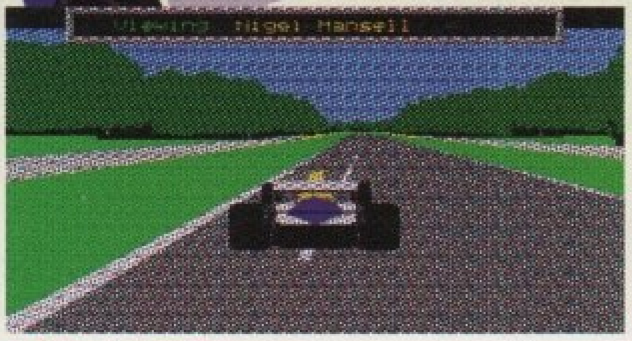
The idea of the practice laps is to give you a chance to experiment with these set-ups and see which variation best suits the track. Each lap time is recorded and the best one determines where you are on the grid. Two or three laps with each set-up tell you whether or not it is worth pursuing, and which drivers you are going to have to look out for. To help the novice there are six driving aids (see box), one of which is lost every time you increase to the next of the five difficulty levels. They are all useful but once you have become used to how the cars function you will find that although you might not want to increase the difficulty level just yet, you won't want all the driving aids on – after all, it takes most of the fun out of it.



The five difficulty levels determine how well the other cars drive, but you can also determine the distribution of performance between them using the switch at the bottom right of your dashboard. A diagonal slope means that it is realistic, ie the best drivers will be in the best cars. These figures are based on race times for the 1991 season which has just finished. A flat line means that all cars and drivers are the same, and a wavy line means

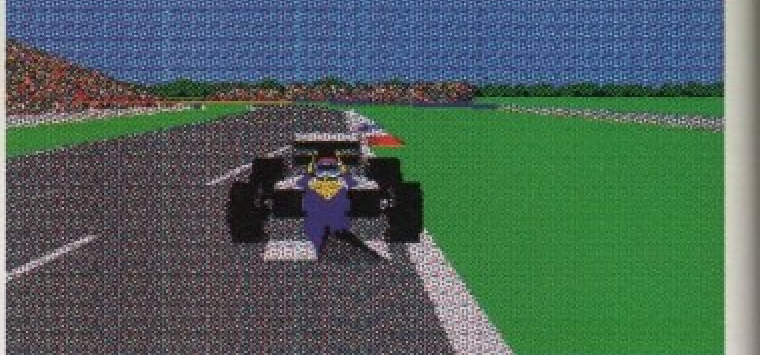




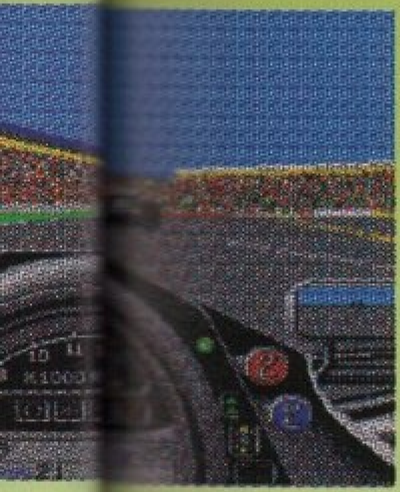


Drive a bit on the careless side and you'll end up with a dent on the front wing. This reduces downforce and the car handles like a tub of mousse

One of the camera angles gives a chase view. Once you get used to the gears this can be a good way to drive



E GRAND PRIX



Coming up behind Patrese at Hockenheim. If he follows team orders he should let you through

e there



s func-
h you
ifficulty
all the
s most

ermine
ut you
tion of
ng the
r dash-

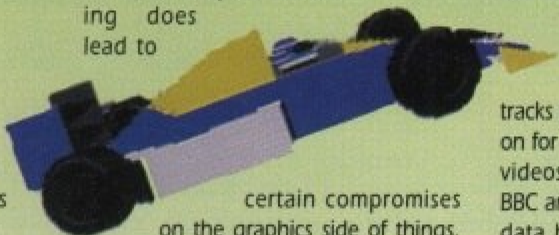


at it is
drivers
se fig-
or the
ned. A
drivers
means



that it is randomised – good drivers could be in crap cars and vice versa.

Race length will have already been determined by you at the start of the championship as a percentage of real race length and cannot be changed without resetting to the beginning – after all, it would be unfair if you changed the last race of the championship to one lap to make sure your position was unassailable. Naturally because each race can take up to three hours if played at the full length the championship can be saved, and so can the race at any point whatsoever. This may sound unlikely but when you consider that the computer is actually driving every car on the track, not just working out where it is, the computer knows exactly where every car is at any one time. Therefore it can save that information quite easily. All this driving does lead to



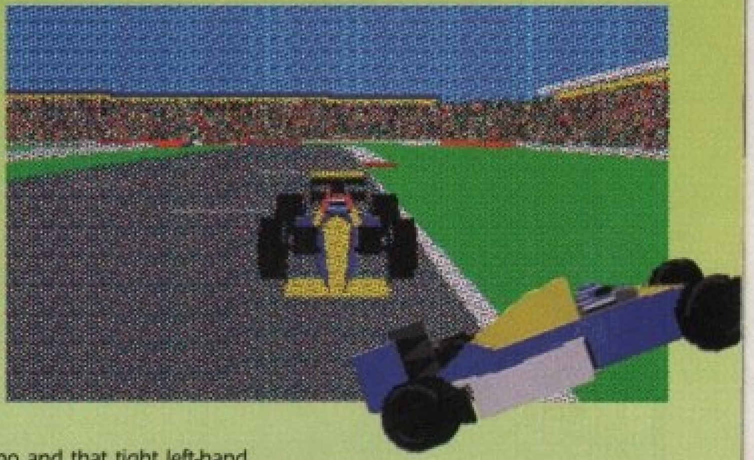
certain compromises on the graphics side of things.

There are no two ways about it, on a standard 1 meg A500 it is jerky.

But 3D vector graphics are the only way that the circuits can be captured accurately right down to the last bump and trackside building.

Well, almost – not all the detail is there but what is there is very accurate. Monaco is the clearest example of this

Nope, he obviously isn't following team orders



with the Casino and that tight left-hand hairpin which drops about 20 foot during its course, to name but two features being clearly recognisable. The accuracy of the tracks has been worked on for a long time using videos taken from the BBC and satellite TV, car data has been gained from Honda technical data and close contact with the Footwork team (formerly Arrows) who gave a lot of assistance with the friction and drag data. One member of the Footwork team drove around a few of the tracks in the game and was apparently stunned by the accuracy.



Keeping the revs up at the start is crucial for that swift getaway

The jerkiness is acceptable when you take all of this into account and more so because the game still feels as though you are actually racing at 180 miles an hour. It isn't slow like some games, just a bit like blinking a lot while you're driving.

The sound is the biggest let-down, the engine noise being simplistic to say the least, but something had to be sacrificed in a packed memory and that was it. Then again, a droning whine might be all you hear inside a helmet!

This is a minor quibble when you look at the game as a whole. I was worried at first when I heard the term "simulation" mentioned, because I felt that gameplay would be sacrificed for accuracy, but if anything the accuracy helps – it means that each track requires skill and concentration and a lot of practice before you can get close to emulating the fastest times.

As well as this, because each car is being individually driven, each race becomes engrossing to the extreme. Brilliant.

Jools



Read this if you can't drive

Generous to a fault, Geoff Crammond has provided six driving aids to help the crap ones among you. These are the finished aids which some earlier reviews in other mags failed to mention:

Going from left to right

1: Auto Braking. This brakes the cars to the right speed for the corner. It won't stop you hitting another car though.

2: Auto Gears. Changes up and down in just the right places.

3: Self Correcting Spins. If you spin off then you will always be turned to face the right way.

4: Indestructible Mode. You won't be beaten up by other bigger tougher cars.

5: Best Line: Puts a dotted line on the track which shows the best route to take around the track.

6: Gear Reminder: Suggests the best gear for the next corner.

VISION GGGG
Reasonably smooth and very accurate.

AUDIO GGG
Average chip-based tune but awful effects.

PLAYABILITY GGGGG
Like being in the real thing, but without the risk.

ADDICTION GGGGG
Nothing will stop your quest for that perfect season.

93%

talking shop

GALLUP CHART

Compiled exclusively for GAMER

Twenty new entries this month, seven of which are in the top ten. It's beginning to look as though the money's starting to be spent as all the top games come out of the woodwork in the build up to Christmas. All these new entries mean that there is only room enough for four climbers, with 16 games dropping to some extent.

Anco's excellent compilation comes straight in at number one, beating even the biggest licence of the year, Terminator 2, into second place – both of which have relegated Jimmy's snooker to third place. Magic Pockets has turned up at number four, but the real shock is the fact the Core's Thunderhawk has basically disappeared from the chart. The remaining four new entries, Final Fight through to Alien Breed, are all top games or big names.

The two big god games of this year have come in at fairly similar placings, with Mega Lo Mania entering two places above Gremlin's Utopia. How they'll stand up to competition from Populous II over the December selling period is going to be very interesting. The budget release of the original, entering this month at 25, will enhance the already large interest in the release.

Other new entries of note include Last Ninja 3 from System 3 and Flight of the Intruder from Mirrorsoft.

Next month? There's going to be loads of stuff, but due to deadline pressures caused by the Christmas break, you'll have to wait till the March issue (on sale beginning of Febuary) to find out who sold what in December. Publishing eh? What a laugh.

Jools

THIS MONTH		LAST MONTH			
1	↑↑	NE	Return to Europe	Anco	£7.99
2	↑↑	NE	Terminator 2	Ocean	£25.99
3	↓	1	Jimmy White's Whirlwind Snooker	Virgin	£29.99
4	↑↑	NE	Magic Pockets	Renegade	£25.99
5	↑↑	11	Bubble Bobble	Hit Squad	£7.99
6	↑↑	NE	Final Fight	US Gold	£25.99
7	↑↑	NE	Lotus Turbo Challenge 2	Gremlin	£25.99
8	↑↑	NE	Head over Heels	Hit Squad	£7.99
9	↑↑	NE	Alien Breed	Team 17	£24.99
10	↑↑	25	Shadow of the Beast	Sizzlers	£7.99
11	↓	5	Silent Service 2	Microprose	£34.99
12	↓	6	TV Sports Football	Mirror Image	£9.99
13	↑↑	29	Dragon Ninja	Hit Squad	£7.99
14	↑↑	NE	Mega-Lo-Mania	Mirrorsoft	£30.99
15	↑↑	NE	Rugby – The World Cup	Domark	£24.99
16	↑↑	NE	Utopia	Gremlin	£29.99
17	↓	4	Full Contact	Team 17	£9.99
18	↓	3	Cruise for a Corpse	US Gold	£27.99
19	↓	8	New Zealand Story	Hit Squad	£7.99
20	↑↑	NE	Turrican	Kixx	£7.99
21	↑↑	NE	Altered Beast	Hit Squad	£7.99
22	↑↑	NE	Last Ninja 3	System 3	£25.99
23	↓	12	Lombard RAC Rally	Hit Squad	£7.99
24	↓	7	PGA Tour Golf	Electronic Arts	£25.99
25	↑↑	NE	Populous	Electronic Arts	£9.99
26	↑↑	NE	Batman – The Movie	Hit Squad	£7.99
27	↑↑	36	Flames of Freedom	Rainbird	£34.99
28	↑↑	NE	Fantasy World Dizzy	Code Masters	£6.99
29	↓	21	Pro Boxing	Code Masters	£7.99
30	↓	15	Manchester United Europe	Krisalis	£25.99
31	↓	10	Monkey Island	US Gold	£29.99
32	↑↑	NE	Scooby Doo and Scrappy Doo	Hitec	£7.99
33	↑↑	NE	Flight of the Intruder	Mirrorsoft	£34.99
34	↓	9	Supercars	GBH	£7.99
35	↑↑	NE	Wacky Races	Hitec	£7.99
36	↑↑	NE	Power Drift	Hit Squad	£7.37
37	↓	13	North and South	Digital Int.	£7.99
38	↓	16	Rainbow Collection	Ocean	£19.99
39	↓	28	Defender of the Crown	Mirror Image	£9.99
40	↓	31	Indy and the Last Crusade	Kixx	£7.99

'STATE OF THE ART' 16 BIT TECHNOLOGY



The mystery/role-playing adventure, combining History and classic science fiction, based on the world famous role-playing game by Game Designers' Workshop.

Space 1889: Discover a recreated solar system as envisioned by the scientific theories of the 19th Century and in the imaginations of such classic writers as Jules Verne, A. Conan Doyle and H.G. Wells. Written by the same team as the critically acclaimed 'MEGATRAVELLER 1'

INTERPLANETARY EXPLORATION

- Visit the canals of Mars and deal with warring Martians; explore treacherous swamps on Venus; travel through the mysterious underground caverns of the Moon . . . Even Earth is ripe for exploration and rife with intrigue . . .
- Planets and stars are accurately represented in Space. Actually navigate by the constellations themselves!

DIPLOMACY

- Overcome corrupt German conspirators, a radical Martian religious cult and the awesome intelligence of an advanced alien society that has escaped notice for thousands of years.



WEAPONRY

- Historic 19th Century weapons include 30 guns, 4 throwing weapons and 9 close combat weapons. Ranging from bolt-action rifles and single-barrel revolvers to swords and daggers.

PROFICIENCY

- Create five characters, male or female, from among six attributes and 24 skills, including Fisticuffs, Crime, Theatrics and Engineering. Control character development through a wide variety of careers.

HISTORICAL ADVENTURE

- Over 100 locations to explore on Earth alone - all depicted with historical accuracy and fascinating details. Including London, New York, San Francisco, the Far East and the Valley of the Kings.

TACTICS

- Realistic combat sequences let you control each character individually, while still giving general orders to the others.

VERSATILITY

- Meet and interact with over 500 unique characters, each with distinct personalities.



SCREEN SHOTS TAKEN FROM IBM PC VERSION

MEGATRAVELLER 1



Based on MegaTraveller by Game Designer's Workshop, the most popular science fiction gaming system and now the critic's choice as the Number One Computer Game!

AMIGA COMPUTING
Brilliantly balanced between complexity and playability - MegaTraveller 1's gameplay is a miracle..."The best RPG/Adventure game of the year."

CU AMIGA
A fantastic RPG with loads of puzzles.

AMIGA FORMAT
I can't think of any role-playing game which has the depth and richness of what's going on.

GAMESMAN
This game is truly, uncategorically "Mega!"

ACE
A quantum leap for sci-fi RPG's.

AMIGA COMPUTING
"A triumph of intelligent game design."

THE ONE
No other computerised RPG comes as close to being an accurate conversion as MegaTraveller 1.

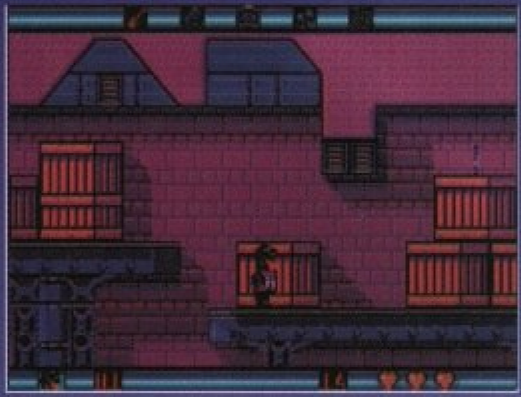
GEN 4
MegaTraveller 1 is THE Game of Today...

AMIGA POWER
"Terrifying depth, friendly and helpful controls, great atmosphere, excellent balance of strategy and action.
A wonderful piece of role playing software that everyone should play."

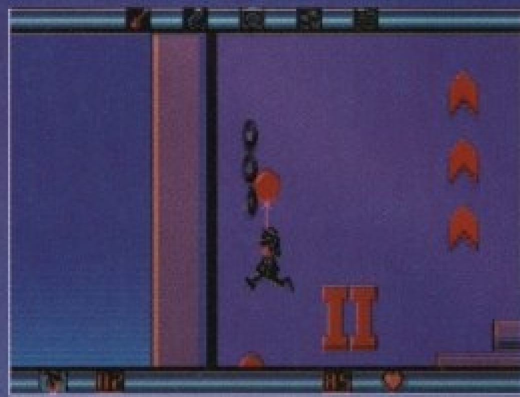
EMPIRE STRATEGY

AVAILABLE ON:
CBM AMIGA, IBM PC & COMPATIBLES AND ATARI ST

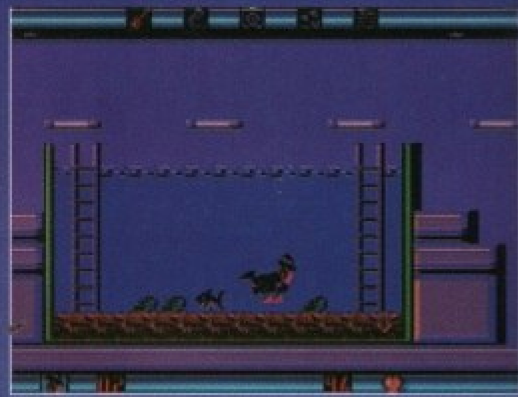
EMPIRE SOFTWARE, 4 THE STANNETTS, LAINDON NORTH TRADE CENTRE, BASILDON, ESSEX SS15 6DL TEL:0268 541212



Jake in the Blues Brothers merchandise warehouse!



Fun with ballons



It's Elwood taking a dip in an overlarge fishtank

The jailbirds with soft hearts for some jiving

BLUES BROTHERS

TITUS • £25.99 • ½ meg • Joystick • Out Now

The men in dark suits and shades are back and after the success of the film and video they are now proudly rockin' and rollin' on your Amiga, thanks to Titus.

The game's story goes like this. Are you sitting comfortably? Then I'll begin. Once upon a time there were a couple of nice respectable chappies called Jake and Elwood Blues who'd unfortunately spent a long time in that nasty, nasty place, prison. Upon leaving the... (cut the crap I haven't got all day or else you'll be fired – Games Ed).

Gulp, right I'll start again. OK there are these two dudes called Jake and Elwood Blues – the Blues Brothers – and they were nicked and thrown in the slammer (at the end of the film, remember?). When the boys got out after a long stretch they discovered that some little tea-leaf had nicked all their musical equipment, and this is where you come in.

You have to control either Jake or Elwood – you can have them on the screen at the same time if you find a friend with a spare joystick – and guide them round several locations trying to get their equipment back. Not an easy task.

Control of the Brothers is so simple that even Jools our games editor picked them up with no problems whatsoever (watch it, you – angry Games Ed). Pulling the joystick left and right moves your brother around the screen in the respective direction. Shoving the joystick up makes your brother leap a mighty enough jump to put Wayne Sleep to shame, and pulling down makes your bro' duck.

To attack your fearsome enemies, who are strategically dotted around the place, all you have to do is press Fire to pick up an object and then press Fire again to throw it at your enemy, knocking the blighter out for the count. The objects are few and far between, so use them very wisely.

Each level contains one item which isn't too hard to find – all you have to do is use your brains a bit. When you find the item you have to leave via the exit, which is placed somewhere in the level.

At the bottom of the screen is your energy meter. Your energy is represented by three hearts and when you come into contact with an enemy or whatever, you lose one of those hearts. When all those are lost you lose one of your three lives.

But not to fear, because hearts can be regained by either finding a little heart – they are dotted around the level – or collecting one hundred records, which are to be found in little clusters.

As you can see, you have to do a lot of dodging enemies, a lot of exploring for the essential items, and a lot of hunting for exits. I did warn you it wasn't an easy task, didn't I?

The game really does excel on the graphics and sound front. The graphics are brilliant and give a really good Blues Brothers "feel" to the game. On the sound front, there are five funktastic tunes all taken from the movie and Titus must be applauded for these, which really do make the game for me.

After all the duff film conversions that have been released (Terminator 2, Navy Seals, Darkman, Back to the Future 3, Gremlins 2 and so on) this really is a breath of fresh air. The playability, graphics and sound are all good.

There isn't a lot I can grumble about except maybe that the game is quite hard and definitely not one for the platform beginner.

If I was Titus I would be very proud of this excellent film conversion.

Biffa



VISION
GGGG
The character sprites give the game that Hanna-Barbera feel.

AUDIO
GGGG
Five fantastic tunes from the cult movie.

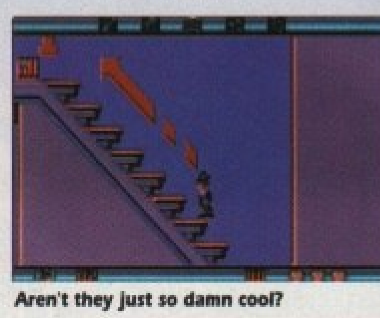
PLAYABILITY
GGGG
Easy control system makes it great fun to play.

ADDICTION
GGGG
Keeps you coming back for more and more and more.

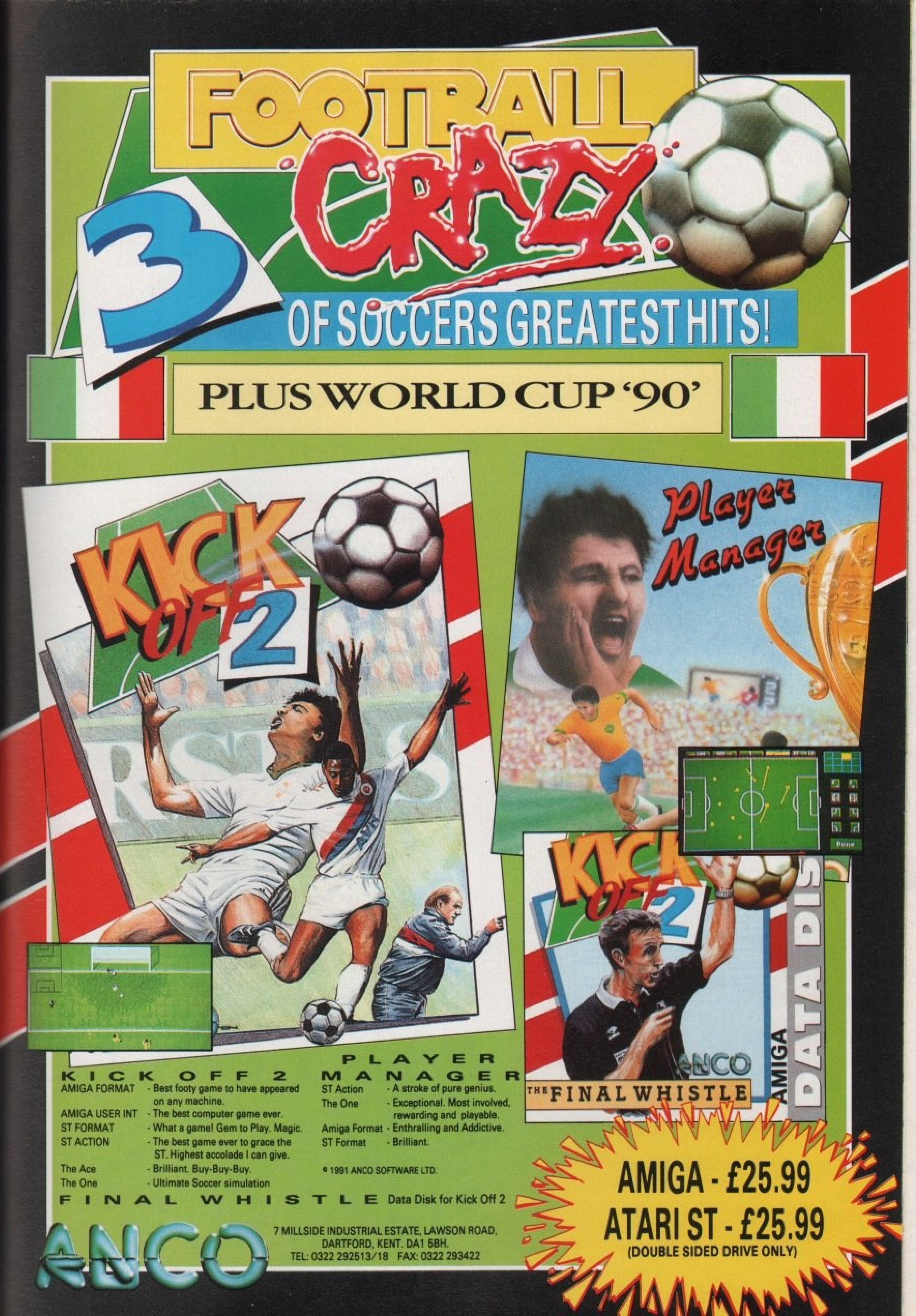
88%



It's showtime...music please



Aren't they just so damn cool?


FOOTBALL CRAZY
3 OF SOCCERS GREATEST HITS!
PLUS WORLD CUP '90'
KICK OFF 2
Player Manager
KICK OFF 2
AMIGA DATA DIS
THE FINAL WHISTLE
KICK OFF 2
AMIGA FORMAT - Best footy game to have appeared on any machine.
AMIGA USER INT - The best computer game ever.
ST FORMAT - What a game! Gem to Play. Magic.
ST ACTION - The best game ever to grace the ST. Highest accolade I can give.
The Ace - Brilliant. Buy-Buy-Buy.
The One - Ultimate Soccer simulation
PLAYER MANAGER
ST Action - A stroke of pure genius.
The One - Exceptional. Most involved, rewarding and playable.
Amiga Format - Enthralling and Addictive.
ST Format - Brilliant.
© 1991 ANCO SOFTWARE LTD.
FINAL WHISTLE Data Disk for Kick Off 2
ANCO
7 MILLSIDE INDUSTRIAL ESTATE, LAWSON ROAD, DARTFORD, KENT. DA1 5BH.
TEL: 0322 292513/18 FAX: 0322 293422
AMIGA - £25.99
ATARI ST - £25.99
(DOUBLE SIDED DRIVE ONLY)



Got 'im skipper

"Ooh, Captain," gasped the Engineering Officer, "those bulkheads won't take much more of this! Ye cannae change the laws of physics!" We had attacked a peaceful little convoy of Japanese battleships and cruisers about twenty minutes before, and had spent the intervening time trying desperately to dodge the six escorts and their incessant depth-charging.

So far they had fought fair, but it was only a matter of time before the water was filled with the sound of Des O'Connor as those fiendish orientals resorted to the ultimate weapon. I had to think fast, and engineer Mr Scott's impressions weren't helping my concentration.

"There goes another one," he added as a depth-charge went off perilously close. "Much more of this and she'll break up, Cap'n!"

"Hard left rudder!" I shouted, "Release debris!". There was a sort of drawn out glooping sound as the debris, designed to fool the destroyers into thinking they'd sunk us, was fired from tube one. We'd added an extra touch of realism by coaxing the engineer into the torpedo tube with a story about dilithium crystals. It's a far better thing, and all that, eh?

After ten more minutes of crash diving, hard ruddering, and glancing sweatily at stop watches – well, they do it in the movies, don't they? – we evaded our pursuers. One engine damaged, a fire amidships, our periscope wrecked, and the four torpedoes we'd fired were all duds. Ah well, at least we got rid of the engineer.

Silent Service II is the follow up to MicroProse's smash hit of 1986, Silent Service, which to date is still the best sub sim on the Amiga. The original game had challenge, detailed control of difficulty level, and tense action. So how can they have improved it?

The answer is a double dose of graphics and sound. Silent Service was excellent on the gameplay front, but fairly under-endowed when it came to presentation. The sound effects were primitive and the graphics functional, so there has always been room for massive improvement.

And massive improvement is what we get after all these years! When the game loads, which can take some time, SS II's heritage becomes obvious. It was designed as a game for VGA IBM compatibles, and as such has digitised pictures of the ships and far more presentable layouts for the various action stations you can access.

These include the map screen, where most of the action takes place, the periscope, which you'll use as little as possible if you want to survive very long, the bridge view, damage control, and the gauges (you have to check these yourself as you've just shot your engineer out into fifty fathoms of the Pacific Ocean, remember?).

The action stations are accessed either by pressing function keys or by clicking on a small symbol at the bottom of your screen. There is enough information contained in them to keep most people happy, but I would have liked a continuously updated depth gauge on all screens. When you're in shallow water and under attack, running aground is the last thing you'll ever do. All the graphics are slick and colourful, yet they manage functionality at the same time. The gauges screen is a little confusing at first – I found myself wondering which was the thermostat and which was the clapometer – but you're soon au fait enough with it to take a quick glance during combat just to make sure there's enough power in the batteries to keep that little rabbit tapping away on his tin drum.

The game's sound effects have been improved out of sight. Everything is sampled, right down to the "dive! dive! dive!" as you slip below the waves. The seagull sounds when you sail on the surface are a nice touch, too. Sonar pings, explosions, and engine noises are all realistic enough to add a healthy wodge of atmosphere when you're in the thick of things, so they do exactly the job you'd expect for a simulation.

You can play SS II in several ways, though the difficulty levels have been greatly simplified. Instead of the individual options in the original, such as whether or not you want expert destroyers or convoy zig-zags, the player is given a choice of four levels – Introductory, Normal, Advanced, and Ultimate. The only realism factor under your control is whether you have historical or flawless torpedoes.

For much of the war, American torpedoes were of a distinctly dodgy design, so if you choose the historical option you will find many of them turn out to be duds. This is a real pain if you've fired off two torpedoes, then crash dived and turned away at flank speed as all sensible commanders will do. By the time you realise your torpedoes have caused no more damage than a quick paint job will cure, you're hopelessly out of position and the escorts have been alerted.

I found the temptation to fire three or even four torpedoes at a small freighter was irresistible after a few of my torpedoes had gone "dunk" instead of "boom". This is wasteful – after all, they are a submarine's most valuable resource after fuel and air.

The difficulty levels work fairly well. Introductory is easy and designed to let you get your feet wet – or keep them dry, in this case! – and Normal is a well balanced option for when you've mastered the basic tactics of submarine warfare (sneak up when they can't see you, fire from under cover, and run away very quickly).

Of the two higher levels, Advanced seems to offer more adept destroyers and alert lookouts, which is my way of admitting they saw me coming a mile





Another triumph of US engineering goes off with a "dunk"





Two torpedoes streak off on the map screen



Enemy ships seem to melt rather than sink

away and depth-charged me till my ears popped. Ultimate level is hairier than an Afghan Hound.

There's enough of a challenge to keep the average sim fan going for a very long time with SS II, especially when it is played in the War Career mode. This allows you to choose a start date for your career, the base from which you begin, and your patrol zone. From this point, it's up to you where you patrol, which contacts you investigate, and how long you live.

You won't last long if you rush in at every contact. When patrolling, you have a map of the entire Pacific basin and the submarine, represented by a white dot, follows the mouse pointer as long as you keep the left button depressed. When a contact is made, you are given a screen telling you the rough size of the contact, its bearing and the time of day.

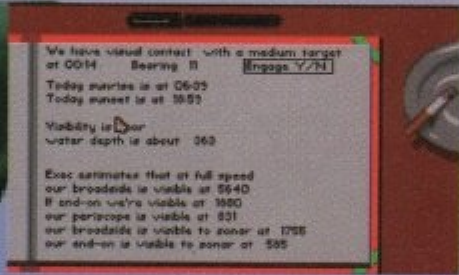
This determines how close you can go to an enemy without being seen. There are different values for end-on, broadside-on, and your periscope along with the range at which you'll be visible

Torpedoes on the starboard bow!

SILENT SERVICE II

MICROPROSE • £34.99 • 1 meg • Mouse/keyboard • Out now





Every contact prompts a screen of useful information

on sonar. I generally chicken out of any daylight attack as they're usually more hassle and danger than they're worth, but even sticking to attacks in darkness, I've so far failed to survive longer than June 16th 1943 – over two years short of VJ day!

If you're a sim fan, buy this game – it's excellent. If you have the original, try it first. The gameplay is essentially the same and you might not be bothered about the fancy touches.

Anton Black



There's a range of historically accurate subs to choose from



Bit of a cock-up on the catering front I'm afraid

Must've left the chip pan on!

VISION
Better than the original by far. The digitised ships are especially good.

AUDIO
Limited, but of a high quality and adds atmosphere.

PLAYABILITY
A challenging sim with plenty of long-term appeal. Combines tension with tactical awareness.

ADDICTION
Plenty if you like simulations, but absolutely none if you don't.

88%

Norse to see you...to see you Norse

HEIMDALL

Core Design ▪ £30.99 ▪ 1 Meg ▪ Joystick/Mouse ▪ Out Now

Vikings have a bit of a reputation. You see, they're generally considered to be a bit "hard". Not just hard as in "Come on you ponces, I've had 23 pints and I'll tek youse all on", but hard as in "plucking rusty nails from their kneecaps with their teeth and enjoying it". Yes, it's official. Vikings are "hard". Or at least they used to be.

Somewhere along the line, those powerful noble Vikings suddenly became Abba and Roxette. I ask you, what can have gone wrong?

Did some horrendous twist appear in the DNA of the Norse warriors that resulted in Scandinavia being famous for Lego and crap disco music rather than hairy hammer-wielding killing machines and boats with dragons on them? Personally I think that it was those pesky Norse gods having a laugh. Sort of like a divine Jeremy Beadle prank.

The Norse gods were famous for stupid things like that, you know. Come with me on a swirly trip back through time, and I'll show you what I mean...

WoooooOooooooHoooooo. Wibble. (One quick swirly trip back through time later). Well, here we are in Finland, home of the Vikings. Or is it Sweden? It could be blimmin' Durham for all I know, but take my word for it, this is definitely the home of the Vikings.

If you look over yonder you'll see a lovely little Viking village, and a small boy hurling axes at a little girls head. OK, settle down. It isn't what you think. Well, actually, it is what you think, but there's a bloody good reason for it.



It's the Heimdall Posse, er, chilling out

Young Heimdall, for it is he, is the laddie in question and the reason he must abuse greased up animals and throw sharp objects at young girls is because he is a God in human form. Or a human in Godlike form. Either way, he's destined to be the saviour of all the Vikings when he grows up. No snogging on the back seat of a longship for Heimdall I'm afraid. But before he can go on to fulfill his majestic destiny he must prove himself to be a worthy warrior, and apparently Vikings proved their manhood by worrying farm animals and threatening young lasses. Nothing's changed really has it?

There are three tasks which young Heimdall must complete for him to gain the respect of the villagers. First he must sever an incarcerated girl from her pigtails by flinging axes at her, then he must capture that infamous greasy pig, and finally he must retrieve a bag of gold from a ship, while everyone tries to beat him up.

How well you do in these sections will directly affect your chances in the proper game, because obviously the village warriors aren't going to join up with a little squirt who can't even keep control of a pig.

Therefore, if your performance in these sections is especially crap then you won't have as many crew members to choose from later in life. On the other hand, if you're ace at these bits then everyone'll be wetting themselves to be in your gang, just like Gary Glitter. Once you've proved your manliness, we fast forward a couple of decades to when Heimdall is a strapping viking warrior, so it's time for another of those spooky swirly trips through time...

WoooooOooooooHoooooo. Wibble. Blimey. This time travelling lark's fun isn't it? Anyway, it's now about, ooh, ten or fifteen years later and the time of Ragnarok is nigh.

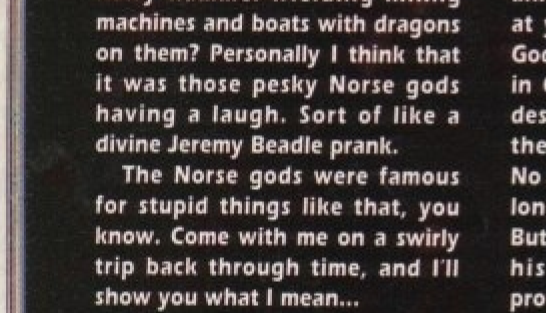
It is prophesised that the evil god, Loki, will have a punch up with the good gods and will scatter the weapons of the gods throughout the viking lands, so the good gods don't stand a chance. Luckily, the good gods thought this might happen and so they created Heimdall yonks ago to find the weapons for them. Forward planning, you see. Highly efficient fellas these god types.

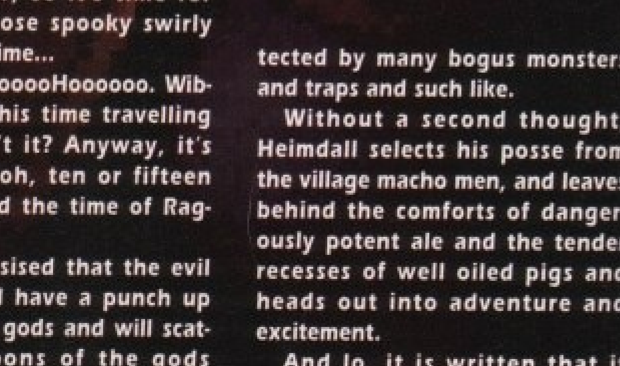
So, Heimdall sets off to find all three of the god's weapons so they can give Loki a good thrashing and then all will be well with the world. Unfortunately for Heimdall, the weapons are protected by many bogus monsters and traps and such like.

Without a second thought, Heimdall selects his posse from the village macho men, and leaves behind the comforts of dangerously potent ale and the tender recesses of well oiled pigs and heads out into adventure and excitement.

And lo, it is written that it would come to pass that in the year 1991, the gamesmiths of Core Design would take the great and (not entirely) true legend of Heimdall and transform the tomes therein to forge a video arcade game of truly trouser rending magnitude. And they did as well, you know.

Yup, Heimdall is corkier than a badly opened bottle of wine. It's gorgeous. It's fruity. It's like Cadaver without the control problems. It's like Dungeon Master


All this excitement is a bit much for ol' Heimdall


Lovverly, super, smashing, take your time, the moneys safe...



"Geez Charloin, don't you think the barbie's a bit too hot?"

with an arcadey feel. It's not 'alf bad, if the truth be told.

In the main part of the game you control Heimdall, and two of his six strong crew, as you explore all the islands that make up the viking world. The world is divided into three seperate lands, the land of men, the land of giants and the land of the gods. In each land you'll find one of the lost weapons, but you'll have to solve plenty of little quests and puzzles along the way.

Of course, vikings being vikings, there's bound to be loads of scrapping going on. And there is. Combat is very much in the style of Elvira. The mouse is used to click on the weapon you wish to use and then on the ATTACK icon. You'll see the combat from first person perspective in a little animated window and the results of your attack. Timing is of utmost importance, as your enemy can easily dodge a badly planned attack.

Magic can also be used, to either protect your team or to assault your opponent. To put it simply, the combat in Heimdall is great. It's just far too tempting to leap into a fight with some huge monster just so you can see what wondrous animation awaits you in the fight scene. Stupid, yes, but great fun!

The graphics are just amazing throughout. The animation on the opening trial sections and the fighting bits puts tripe like Dragons Lair to shame, and the attention to detail on the walking around sections really brings the game to life. I can't really do the graphics justice, so look at those screenshots, get all overcome by the sultriness of them and then drink a pint of cold water. See what I mean? Brilliant.

The sound is limited, mainly due to the amount of memory that the graphics eat up, but what is there is good enough. Footsteps, creaking doors and a stirring theme tune are about all you're likely to hear.



This is only the map for the land of men. Somewhere in there is one of the gods weapons

But stop moaning, just be thankful for what you've got. You selfish mongrels, spare a thought for the ST owners. All they'll get is some tinny scratchy noises. Mind you, that's their fault for buying a smeggy computer.

To sum up then, Heimdall steals little bits from Cadaver, Dungeon Master, Knight Lore on the speccy, and that crap cartoon Vikki the Viking and mixes them all up into a wonderful concoction that should have any self respecting adventure nut locked in a small room for donkeys years. A vast throbbing epic of a game.

Daniel



VISION
GGGG
Second to none animation and detail like you wouldn't believe.

AUDIO
GG
Not enough memory for a full blown soundtrack. The little there is is top.

PLAYABILITY
GGGG
Accessible to non-rpg fans, but enough there for afficionados.

ADDICTION
GGGG
You'll be wandering around these isles for hours.

90%

HAKPAK

In a fit of unbridled generosity, Gamer responds to public demand by continuing the HakPak series actually inside the Gamer section of the magazine. We've brought them inside because it's too cold at this time of year to be hanging around outside.

SHOOT-'EM-UP

GAMER HAKPAK

Warzone
Core Design

To cheat on this great action shoot-'em-up all you have to do is press **F1**, **F2** and **F3** one after another on the the title screen and you will be blessed with infinite lives.

Xenon II
Image Works

While you are in the middle of this great shoot-'em-up by the Bitmap Brothers, bring the game to a halt by pausing it then typing in **RUSSIAN AIR** (with spaces) – then unpause it . Now all you have to do to skip to the next level is press the letter **N.**

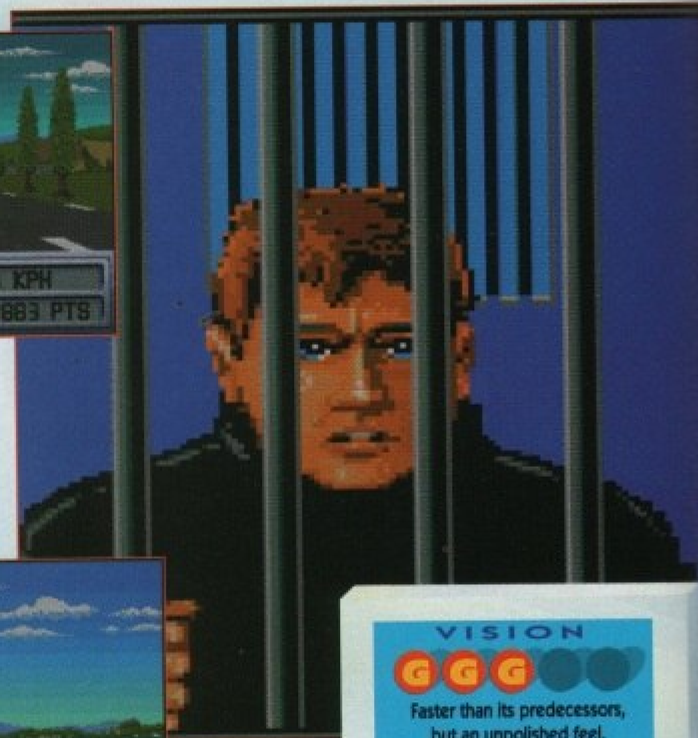






Not the best place for a roadside picnic

A throbbing bike and an open road... in Dover?



That pesky Scooby Doo baddie gets his comeuppance



Off the bike and on to the jetski to find some Bounty bars



It's Bergerac action all the way

VISION
GGG
Faster than its predecessors, but an unpolished feel.

AUDIO
GGG
Heard it all before.

PLAYABILITY
GGG
Adding nothing new to the genre, it doesn't stand out from the crowd.

ADDICTION
GGG
Addictive to a certain degree, but don't expect any sleepless nights.

70%

1992 and all that

OUT RUN EUROPA

US GOLD ▪ £25.99 ▪ ½ meg ▪ Joystick ▪ Out now

Racing games. Hardly a rare commodity are they? They come and go like a kangaroo stuck in a revolving door. And slap me down with a tub of low fat yoghurt, if US Gold haven't released yet another Out Run game to fill up our eager Yuletide stockings.

Unfortunately for US Gold, the Out Run games have a reputation for being, well, a little bit crap actually. To say the original game was slow would be like saying the Pope is a bit religious, and Turbo Out Run wasn't exactly turbo charged, was it? So Out Run Europa really has to be the wasp's armpits to prove itself. Has it succeeded? Read on and find out.

To break the rather predictable racing game style, US Gold have incorporated a "plot" into the game. Plot? Ha ha ha! It's not really a plot, just an excuse to try out other styles of graphics. Anyway, for the purists amongst you here, in all its glory, it is.

The Plot: You're supposed to be a secret agent, blah blah, exciting car chases, blah blah, dangerous missions, blah blah, Out Run with different sprites, blah blah. And there, as they say, you have it.

What this all boils down to is a multi-level drive-'em-up in which you leap from motorbikes to jetski, to sports cars to speedboats and thunder across Europe with police and enemy agents in hot pursuit. Every now and again an enemy agent or cop will zoom up behind you and try to knock you for six. You can knock them back, but the best course of action is to use one of your limited turbo boosts and zip out of range. Wow.

The graphics are decidedly average, looking like they haven't quite been finished, and this lends the game an unpolished feel. This is the sort of presentation we'd expect from a budget game, not a big Xmas title from a major software house.

Thankfully, things have been speeded up from the previous two escapades, but that can act against the game, especially on the Jetski level. As you sweep from side to side, rocks can suddenly lurch out of the distance and send you flying before you get a chance to react, which knocks precious seconds off your time limit.

The sound, for those who need to know, is exactly what you'd expect from a racing game. Uninspiring tune, chundering engine noise and squeaky skid effects. Ho de hum hum hum.

The first time I played the game, I hated it. Yes, I'll be honest. I couldn't stand it. It felt sloppy and poorly planned out, almost as if US Gold had released it without testing it properly in time for Xmas. But surely they wouldn't do that? Further playing didn't really do much to change my mind.

Despite all the different sprites it's still a run of the mill driving game. It's not as bad as first impressions might lead you to believe, but it's still a long, long way off being as good as it should be. Alongside competition like Lotus Challenge 2, Out Run Europa looks positively laughable.

Doubtlessly people are already buying it in droves, but the more discerning among you would be wise to fork out for a game that concentrates less on self-gratifying hype and more on playability. As average as average gets.

Daniel



d you to
way off
longside
e 2, Out
nable.
ady buy-
scerning
fork out
less on
n playa-
rage as
Daniel



Baby love, you are my baby love...

BABY JO IN "GOING HOME"

Loriciel ▪ 1/2 meg ▪ Joystick ▪ £25.99 ▪ Out now

VISION
GGGG
Nice graphics that give the game that cutesy feeling.

AUDIO
GGG
Good sound effects, pity about the annoying tune.

PLAYABILITY
GGG
Scrolling damages the gameplay.

ADDICTION
GG
Level of difficulty stops you coming back for more.

70%





Go and get your rattle Baby Jo, it's behind yooooou!



Oooh what's in the surprise parcel kiddies?



Jo doesn't trust the NHS, he's got his own medication

Everybody loves a baby – why? It's because they are so sickeningly cute that's why, and Baby Jo is no exception. He screams, he cries, he wets his nappies, he burps, he sucks his thumb and he's yours for only £25.99.

Yes, I'm afraid it's true, those guys and gals from across the old English Channel (that's France just in case you didn't know – Geographic Ed) have come up with a cutesy platform game, but is it any good? Well, read on and find out.

The blurb that comes with the game's instructions reads "Who is the new hero?" and the answer is simple – it's Harry Secombe, but apparently Loriciel think it's Baby Jo. That's fine by me but when did you last see Batman wet himself or when did you see Superman start sucking his thumb?

Right, enough of this superhero business, what do you have to do? Being the kind and considerate person I am, I will tell you. It's simple, Baby Jo is lost in the countryside, far from town, his home and his mother, and all you have to do is get him home again.

But have no fear, because Baby Jo is very clever and by using his unique sense of direction he always knows which way is home (Quick, phone the That's Life team).

While trying to get the baby home you have to watch out for hazardous traps and the fearsome baddies. The baddies – all of whom are as cute as Jo – include things like jack-in-the-boxes, flowers, worms, wasps, black clouds which fire lightning at you and even an indestructible sun.

Having all these baddies trying to get poor Baby Jo can be a problem, because babies don't tend to carry Uzis and flamethrowers in their nappies. So what does Baby Jo use to dispose of his enemies?

Well, he uses a more powerful



Watch out for those spiders, Baby Jo

weapon than an Uzi or a flamethrower – he uses baby rattles which are placed around each level. However, they should be used wisely because there are a lot of baddies and not a lot of rattles.

So what else can Baby Jo use to help him get home? Well, there's a first aid kit which restores his energy, and there are also bonuses in the form of fruits and sweets. There are balloons which are inflated with helium so that Baby Jo can climb trees or cross ravines, too.

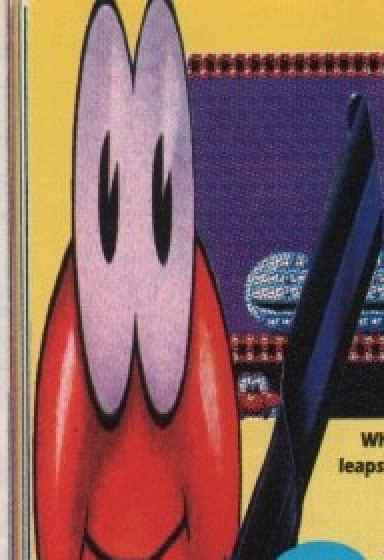
Baby Jo has a friend called Jock the Duck, who looks identical to Daffy Duck. Jock provides Baby Jo with some helpful clues, but beware – Jock has a Jeremy Beadle-type personality and some of his clues are only jokes.

There is one snag with Baby Jo, which is that he hasn't been toilet-trained and if you eat too many bonuses he tends to fill his nappy rather quickly, thus reducing him to walking rather than running. To overcome this problem you must find a new nappy. There are two types – the ordinary nappy and the super nappy. The latter gives Baby Jo super speed and enables him to cross huge distances in a single bound.

The graphics are really nice and give that added cutesy feel to the game. Soundwise, the in-game tunes get on your nerves after a while, but the sound effects are excellent with Baby Jo giggling, burping and crying all the way home. One complaint is that the scrolling is a bit jerky – and the game is rather difficult!

Overall, Baby Jo is just another average platform game. Loriciel have tried very hard but it doesn't compete with the likes of Magic Pockets and Robocod.

Jonathon Maddock





What a guy? Robo leaps deadly traps in a single bound

RoboCod steels himself (ho ho ho) for the confrontation that awaits him inside

We've been expecting you, Mr Pond

ROBOCOD

MILLENIUM • £25.99 • ½ meg • Joystick • Out now

Oh crikey. Oh crikey o' riley. I'm in love with my second game this month. First of all I was reduced to a mound of trembling jelly by the knee-knocking gorgeousness of Alien Breed, and now I've gone head over heels for RoboCod. What will the neighbours think?

And do you know what's best about both games? They're both original. No big money licences, no celebrity endorsements, just good ol' fashioned computer games for the sake of making good ol' fashioned computer games. Ooh, I've come over all nostalgic.

Visions of Manic Miner, Jet Pac and Chuckie Egg swim before my misty eyes. Those were the days. And, smite me backwards with a steaming hot Spectrum power pack, those days look like they might be returning. Hurrah, hurrah and thrice hurrah.

Anyway, before I completely lose myself in the hazy realms of 8-bit memories, I'd better tell you just why RoboCod has sent me so squiffy at the joints. Cos it's bloody brilliant, that's why. It's one of those games that just spurts playability and general loveliness out of the monitor and all over your lap. From the wonderful way it lampoons RoboCop – who could resist a game with the subtitle "he's mean, he's green, he's part machine"? – to the intricately crafted levels, it's a winner through and through.

The story goes like this: The evil Dr Maybe has taken over Santa's toy factory and is producing deadly toys to completely bugger up Christmas for everyone.

Who could save the world from a nightmare of exploding Ninja Turtle figures? Well, we did try that woman from Watchdog but she wasn't in. It was then that the governments of the world had a brainwave and got in touch with F.I.5.H, who in turn got in touch with Pond. James Pond, that is.

Since his last mission, which spookily enough took place in the original James Pond game, James has been "hanging out" with all his under-sea homeboys but when duty calls he's ready for action once more. He reports to "F" and welds himself into a robot suit which will enable him to breathe out of water. Thus fortified against the slings and snorkels of outrageous fortune, he stomps off to exact fishy justice on Dr Maybe.

OK, that's the story out of the way, so just what can RoboCod do? Well as you can imagine, RoboCod weighs a bit, with two tonnes of solid titanium stapled to his nipples, and so instead of zapping the bogus bad dudes with a gun, he just jumps on their heads and squashes them. Fair enough. He can also extend his body vertically and grab onto platforms high above him. This is a really handy gadget, and as there's no limit to how high he can go.You can really have a laugh making him latch onto a really high platform and then letting go. Yuk yuk yuk.

You can also scrunch down to look at what's going on below you. Add to this the usual array of power-ups that gran

Out and about with the Cyborg Trout

During his adventure, RoboCod can take advantage of three different vehicles. And here, in a pretty coloured box, they are:

RoboCar



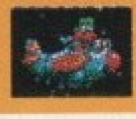
RoboCod isn't above resorting to devious means. As you can clearly see, the thieving bar steward has gone and swiped poor old Noddy's car. But Noddy's just an outdated symbol of blinkered xenophobic fascism anyway, so who cares?

RoboBath



Obviously, if you really want to make a splash when you're out on the town, you should be driving a porcelain bath. Beats a Porsche any day, I don't think. Conclusive proof that certain games programmers are a few lozenges short of a chemist's.

RoboPlane



To really shift through the levels, the RoboPlane is the thing to find. Fast, deadly and decidedly plane-shaped, the RoboPlane is most certainly a plane. Yes, it's definitely a plane. And a very nice one too.

instead of
les with a
heads and
n. He can
and grab
n. This is a
there's no
.You can
him latch
d then let-

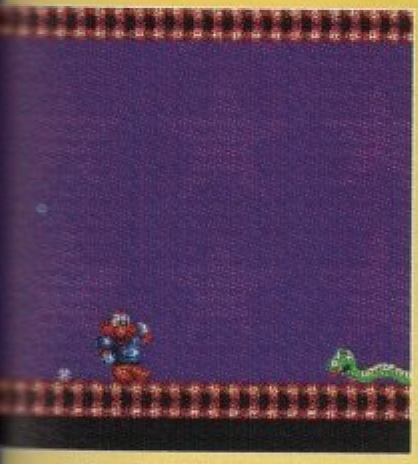
to look at
Add to this
that grant

are:

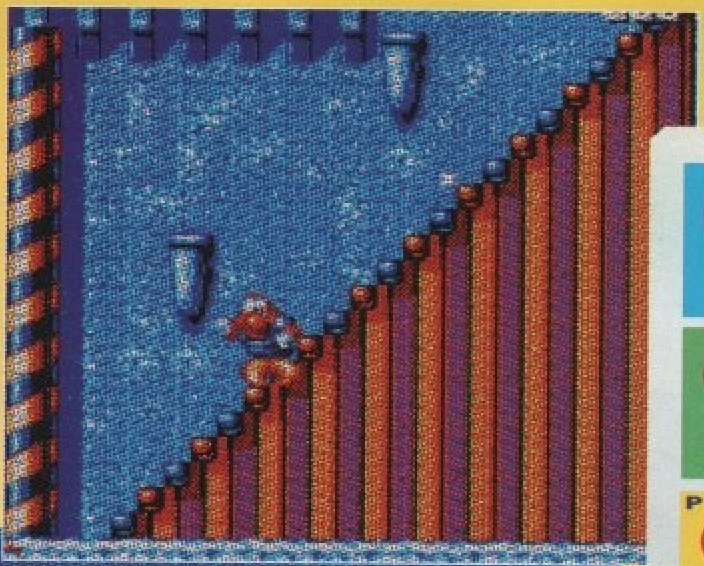
one and
way, so

orcelain
e a few

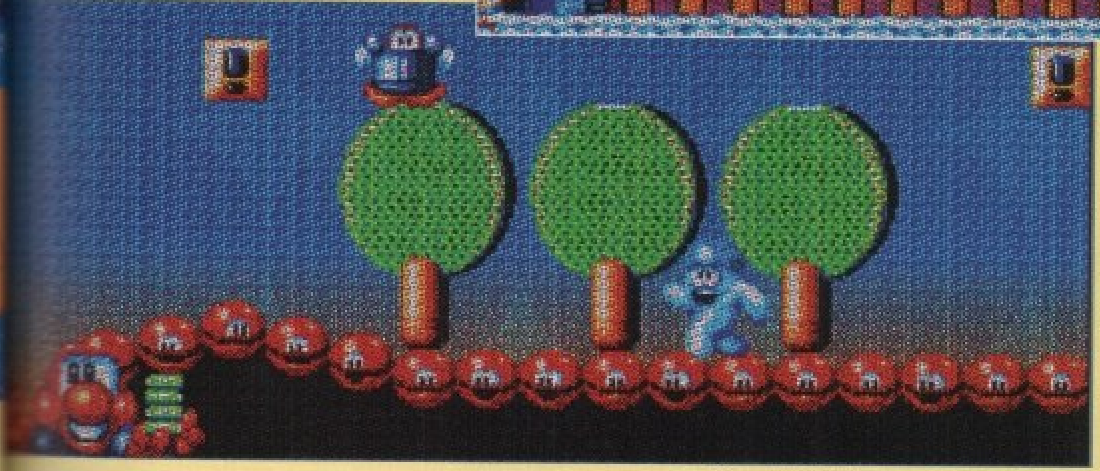
shaped,



Snakes alive! Robo slams on the brakes



Boy Racer mode for Robo as he shows off his rather nifty fin spin



It's no good hiding, you've got a job to do

VISION GGGG
Crisp, cartoony sprites and sockfuls of little twiddly bits.

AUDIO GGGG
A great springy remix of the RoboCop music and neat FX.

PLAYABILITY GGGG
So much to see and do, I dare you to be bored.

ADDICTION GGGG
Insomnia ahoy!

91%



JAMES POND II

you the ability to fly, or to become invincible, and you've got a pretty tough fish.

Robo can also hop into vehicles to aid his progress, and these range from a nifty little plane to a car to a bath tub. Not really sure about flying around in a bath tub, but Millenium reckon it's true, so we'll give them the benefit of the doubt. And if you think that's weird, wait until you clap eyes on what awaits you inside the factory.

Each set of levels takes place in a "room", each of which represent different sorts of toys and games. There are nine rooms in all, each comprising several levels and a big guardian-type thingy. The rooms cover such topics as sports – where big footballs and golfclubs tower above you – to the circus where crazed clowns try to fillet you. The cartoon style is there throughout, with pretty much everything having a silly little face on it, and even the nasties look like rejects from the worst 60's acid nightmare. Bizarre is not the word. Erm, well, actually bizarre is the word. And so is bonkers.

The graphics are brilliantly stylised, managing to keep the feel of the original but still adding something new. Bigger, better and brighter than before is the best way to describe them. The animation is spot on, with plenty of neat little touches to look out for. For instance,



What ho, Robo old chap, beastly hun at three o'clock and all that



Can Robo's wings get him past those smirking bullets?

the way that Robo will pick up momentum as he runs down a steep slope and then skid to a halt at the bottom, with his little fins nowt more than a blur of speed.

Naturally the programmers take full advantage of this momentum and usually put a really fiendish trap at the bottom of a slope so you run straight into it and die horribly. Still, you've got to laugh. Sound, believe it or not, is excellent too. The tune is a bouncy cartoon-style parody of the ominous RoboCop theme, and the springy sound effects complement the graphics well. Boing, thud, ker-splat and wibble. You certainly won't be turning down the volume on this one.

Of course, RoboCod does suffer slightly because it's "just another platform game". In the past few months alone we've had the rather excellent Magic Pockets and the commendable Rolling Ronny, but RoboCod stands up well against such competition. It's better than Ronny, there's no doubt about that, and I might even go as far as to say that it's better than Magic Pockets. Scandalous? Well, I'm just a sucker for a fish in body armour.

There are tons and tons of features and little cheats to discover as you go along. Enough to keep you exploring for weeks on end. But all of this begs the question – what comes next? Dirty Haddock? Pike Rogers? Put it this way, if you liked James Pond then you'll go ape over this, and even if you didn't like James Pond, buy this anyway or I'll come round and break your windows. Yes I will. Now bog off, while I have another bash at the Sweeties level...

It went straight down the middle...

MICROPROSE GOLF

MICROPROSE ▪ £34.99 ▪ ½ meg ▪ Mouse ▪ Out now

Golf games have been somewhat more available on the whole for the Amiga than the ST, especially with the recent release of PGA Tour Golf. This was a fine game but the conversion suffered because no changes were made to the 16-colour lo-res EGA graphics. The 32-colour med-res graphics of Microprose' little club-warmer certainly show up Electronic Art's poorly presented, but highly playable game.

Suitable for the basic A500 machine, Microprose Golf offers, after loading, a menu of options that can be selected before you dive in to the serious business of competition play. Options for past play include loading a previously saved round or a replay of that hole in one on the ninth.

There is also a demo of the play which is handy for beginners because it screens, in one broad sweep, the majority of the available features. You can also view your player's statistics (see later). However, for most beginners you will be well advised to play the driving range and the putting practice area.

Both of these areas have been well designed. The driving range offers alternate strips of fairway and trees – daring you to hit your shot "straight down the middle", as one crooner described it. In addition to the directional guidance you are offered help with distance as the major distance landmarks are scribed onto the fairway (100, 200, etc).

The putting practice area is just as good. The view for the shot can be changed, the speed of the green can be altered and a grid system can be overlaid to help you observe precisely how the ball is moving after your shot.

After your practice sessions have been completed you can select one of many different types of competition. Microprose should be congratulated for the wide choice (a pat on the back is in the post, Paul – Sarcasm Ed).

Medal is a competition for points using a score card. Points are awarded for each hole – the lowest score wins. Skins is a competition for money. An amount of money is allocated to each hole before the round is played and the player who completes the hole with the least number of strokes wins the cash. If there is a draw then the cash is carried on to the next hole, and then the next until the total amount is won. Head To Head is you against the computer, playing for points. Tournament allows you to play with up to four human players for points. In Singles you play for the number of holes won overall. Bestball 3 and Bestball 4 is a competition for points. However, here the match is you or you and a friend against two opponents with one ball each.

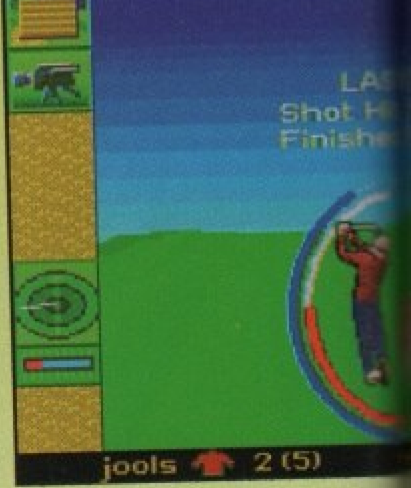
Threesome and Foursome is (deep breath) either two players against yourself or two against two with either two balls for two teams each taking alternate shots or two balls each with the best score on each team counting for the final card. Finally, Threeball and Fourball is a competition of three or four individual sides who play for points. In just about all of the above, you can toggle whether a computer or a human player takes part.

Once you have selected the competition you must allocate the skill level. Novice players get things easy while a player with a handicap must suffer all of the vagaries of play (wind speed and varying direction).

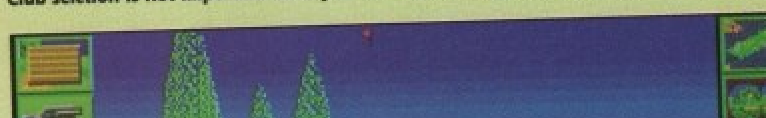
It is nice to see a proper handicap system in a golf game. It means that you will be "given" a number of shots that will be subtracted from your final score.



Club selction is not important until you are very familiar with the game



The swing-ometer is how you exercise an incompetent lack of control over your shots



The view down the fairway as you tee up



VISION
GGGG
Speed and detail! Gosh.

AUDIO
GGG
A few swooshes here and there but it doesn't really matter.

PLAYABILITY
GGGGG
Never has one click done so much for so many.

ADDICTION
GGGGG
You'll never be out of tartan socks and plaid trousers.

91%

cise
r

th team
Finally,
petition
es who
l of the
a com-
rt.
competi-
ll level.
while a
er all of
ed and

andicap
hat you
ots that
l score.

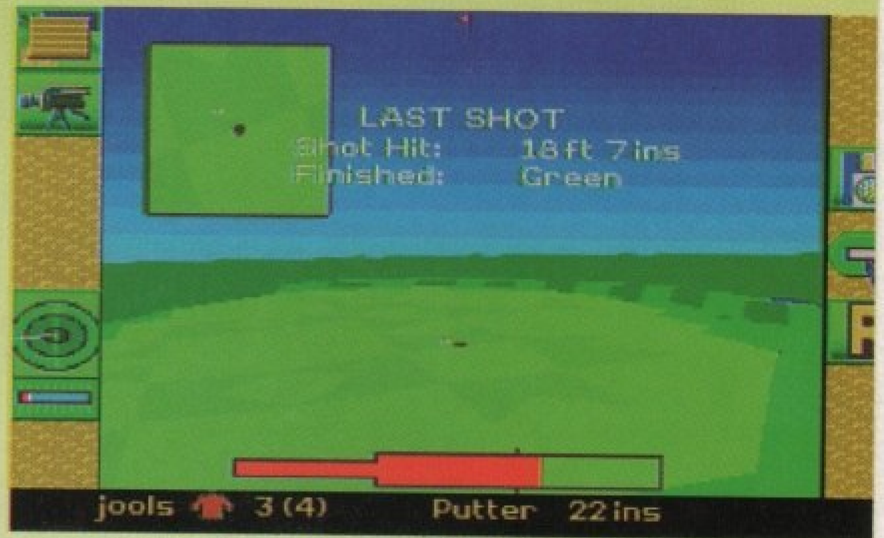
SE GOLF







Prior toeach hole the players are given an overhead view of the upcoming hole



Putting is sometimes a little too easy, or maybe I'm just Nick Faldo in disguise

The better you do, the lower your handicap becomes. Your player statistics can, therefore, be saved to a separate data disk.

It is pleasing to watch how your player improves – or otherwise – over time and competition. A close eye can be kept on your player's statistics from the main menu View Stats option. Here. you can see your player's performance via a large bar graph plus statistics such as average score, average putts holed, number of birdies scored and so on.

There is a wide selection of courses to choose from. Deep breath: Ballybrook, Farthing Valley, St Augustine, Fairdale Park, Fenham Valley, Buckland Heath and Mountsummer Point.

There is a welcome wide selection of variables that you can change before the shot is made, such as varying the foot positions, the height of the tee and the club selection. Other variables include a wide variety of camera viewpoints and an instant replay.

Playing a fairway shot has been well implemented. The game penalises you for a strong shot. Therefore, it is more difficult to hit a straight shot the harder you hit. Basically, you click to initiate the shot, click again to stop the "strength" meter, then click again to try to land in the "straight" zone (which will shrink the harder the shot). Failure to find the "straight" zone will mean a hooked or sliced shot.

For putting, just click to initiate the putt, wait to increase the shot's power and click again to stop the strength meter. This section of the game is a little unusual from others in that the distance you can hit is not explicitly displayed onscreen.

On the fairway you have to quit to the club selection screen and gauge from that how far you go around the strength meter. It might sound strange but this is the nearest simulation to asking your caddy to give you details of the hole.

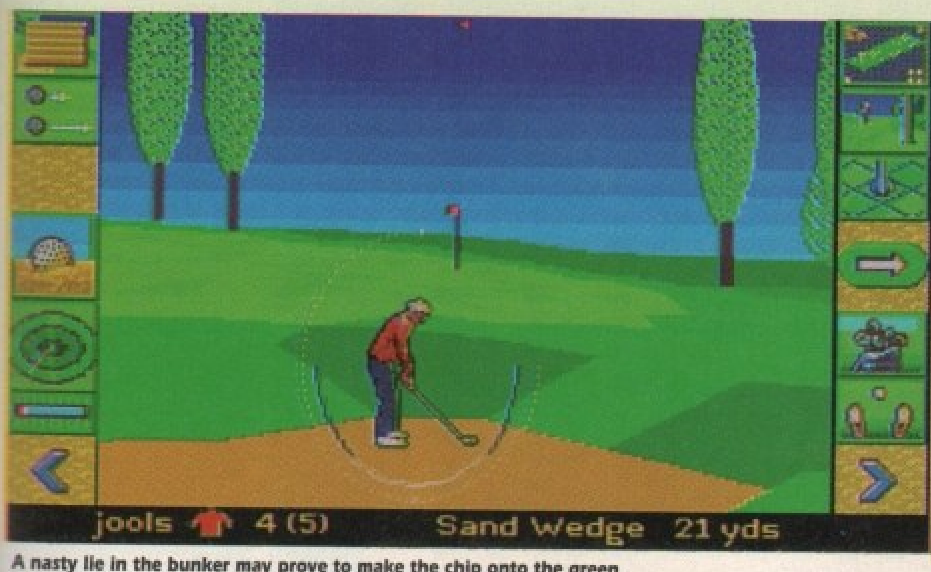
Putting is even more bizarre – across the bottom of the screen is a thermometer gauge. The line which bisects it is the ideal strength for a straight flat putt into the hole from wherever you are. It is up to you to work out whether you need less for a downhill putt or more for an uphill putt. The static-screen graphics make the most of the 32 colours, and as the camera tracks the ball, the smooth way in which the course rotates is reminiscent of the Konami Golfing Greats coin-op, which included more custom chips than you could shake a salt sachet at.

Microprose Golf has many advantages. One excellent feature is the design of the topography which is nicely contoured and contains all of the essential obstructions including water, sand and trees. Even better, this allows the ball to react to the contours. For example, the ball can "kick" if it finds the right spot on the fairway. Other nice features are the ability to change the distance measurements from metres to yards and the colour of the player's jersey.

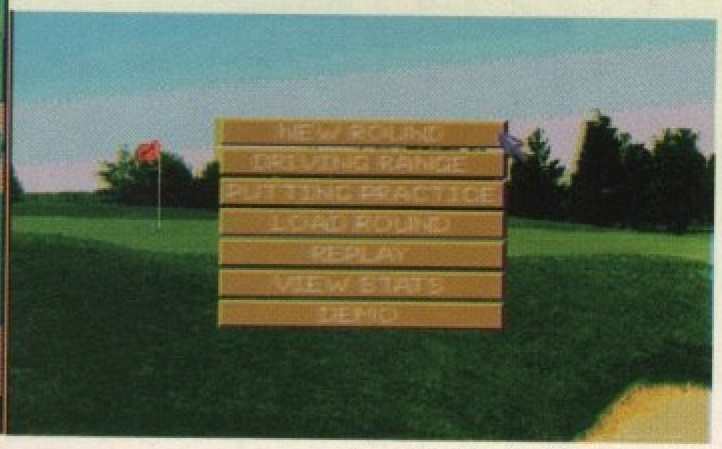
There are niggles, though. You do not see tournament computer player updates, such as in PGA Tour Golf, which has a commentator updating the play. You always have to exit to the scoreboard to find out where you are relative to the competition.

The are many excellent features to Microprose Golf which has, on the whole, been expertly designed. Possibly the best golf game you'll find on the Amiga, it is definitely the best looking, and my personal preference is for this against PGA.

Paul Rigby



A nasty lie in the bunker may prove to make the chip onto the green more difficult than it is (waffle, commentate, commentate)



The plethora of options before the game starts may prove too much for some

Biffa's cheat mode

You can't help it... succumb to Biffa's seductive short-cuts...

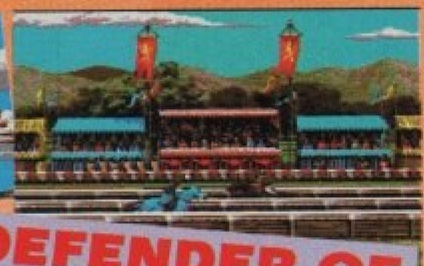


MEGA-LO-MANIA

Here's some cheeky level codes for that great game Mega-Lo-Mania:

2ND EPOCH - BNYABDUNBHV
3RD EPOCH - COVCPMJVEBL
4TH EPOCH - WKCCHIEUKNL
5TH EPOCH - GATAVRXRONT
6TH EPOCH - WWKDXGPXDBZ
7TH EPOCH - KUUCTOPLGHV
8TH EPOCH - PEHAJBPKZAQ
9TH EPOCH - GYJDJHPNFHN
MOTHER BATTLE - TJLBVSNNIGD





NAVY SEALS

Yo babes, here is a cheat for that game of the film of the same name. To help Charlie Sheen and his buddies all you have to do is type in PSBOYS to get infinite credits.

DEFENDER OF THE CROWN

This game was recently released by Mirrorsoft on their budget label Mirror Image. So if you are being bothered by medieval dragons and are having trouble rescuing large-breasted maidens then here's the cheat for you, you daring old knight you.

Simply press K while the second disk boots up and as if by Merlin's beard you will have a huge army of mighty knights at your disposal.

PANG

Here's a cheat for that excellent game Pang. You know, the one with the Japanese chappies running around taking out their frustration on a set of large balloons.

Well, here it is – load the game then select the normal difficulty level. When the screen with the aeroplane comes up type in WHAT A NICE CHEAT as quickly as you possibly can. You can now move to any destination.

SWITCHBLADE 2

What's on the board, Miss Ford? Well it's not one, but two (count 'em) cheats for that beat-'em, shoot-'em, slash-'em, run-around-like-crazy-'em-up game, Switchblade 2, by those masters of the driving game, Gremlin.

To skip levels type in LEVEL on the title screen followed by the number of the level you want to start at. Also, typing in CHROME on the same screen brings up an exciting hidden sub-game. Didn't they do well!

CAR-VUP

Get your motor running, move out on the cheatway. Are you looking for a ch[eat] for this platform car game? Well, your dreams have come true, my princess. [To] cheat try entering your name as R.J.TOONE on the high score table for infi[nite] lives. Ho ho squibble bibble, I do love these cheats!!

BRAT

Plenty of nappy changing in this game. To help you along a bit here are some later level codes: BISHIAMO, MIHEMOTO and last but not least SASUTO 20.



THE DREAM TEAM

publisher - richard williams
gamer editor - julian boardman
associate editor - eddie mckendrick
production editor - phil morse
staff writers - daniel whitehead
jonathon maddock
design editors - terry thiele
eddie mckendrick
ad sales - jane conway
ruth priestley
0625 878888

IF YOU CAN READ THIS YOU'RE TOO CLOSE

climax

GAMER GAMER GAMER GAMER GAMER GAMER GAMER GAMER GAMER GAMER GAMER GAMER GAMER

PUZZLE & QUIZ

GAMER HAKPAK

Chips Challenge

Here are all the level codes for that great puzzle game.

1:BDHP 2:JXMJ 3:ECBQ 4:YMCJ 5:TQKB 6:WNLP 7:FXQO
8:NHAG 9:KCRE 10:VUWS 11:CNPE 12:WVHI 13:OCKS 14:BTDY
15:COZQ 16:SKKK 17:AJMG 18:HMJL 19:MRHR 20:KGFP
21:UGRW 22:WZIN 23:HUVE 24:UNIZ 25:PQGV 26:YVYJ
27:IGGZ 28:UJDD 29:QGOL 30:BQZP 31:RYMS 32:PEFS
33:BQSN 34:NQFI 35:VDTM 36:NXIS 37:VQNK 38:BIFA 39:ICXY
40:YWFH 41:GKWD 42:LMFU 43:UJDP 44:TXHL 45:OVPZ
46:HDQJ 47:LXPP 48:JYSF 49:PPXI 50:QBDH 51:IGGJ 52:PPHT
53:CGNX 54:ZMGC 55:SJES 56:FCJE 57:UBXU 58:YBLT 59:BLDM
60:ZYVI 61:RMOW 62:TIGW 63:GOHX 64:IJPQ 65:UPUN
66:ZIKZ 67:GGJA 68:RTDI 69:NLLY 70:GCCG 71:LAJM 72:EKFT
73:QCCR 74:MKNH 75:MJDV 76:NMRH 77:FHIC 78:GRMO
79:JINU 80:EVUG 81:SCWF 82:LLIO 83:OVPJ 84:UVEO 85:LEBX
86:FLHH 87:YJYS 88:WZYV 89:VCZO 90:OLLM 91:JPQG
92:DTMI 93:REKF 94:EWCS 95:BIFQ 96:WVHY 97:IOCS
98:TKWD 99:XUVU 100:QJXR 101:RPIR 102:VDDU 103:PTAC
104:KWNL 105:YNEG 106:NXYB 107:ECRE 108:LIOC 109:KZQR
110:XBAO 111:KRQJ 112:NJLA 113:PTAS 114:JWNL 115:EGRW
116:HXMF 117:FPZT 118:OSCW 119:PHTY 120:FLXP 121:BPYS
122:SJUM 123:YKZE 124:TASX 125:MYRT 126:QRLD 127:JMWZ
128:FTLA 129:HEAN 130:XHIZ 131:FIRD 132:ZYFA 133:TIGG
134:XPPH 135:LYWO 136:LUZL 137:HPPX 138:LUJT 139:VLHH
140:SJUK 141:MCJE 142:UCRY 143:OKOR 144:GVXQ 145:YBLI
146:JHEN 147:COZA

Look out - he's back!

PAPERBOY 2

No window is safe. No fence is too high. The paperboy is determined to deliver the paper to his subscribers any way he can. Tossing papers left and right, riding in three directions, jumping anything, this free-wheeling carrier visits more neighbourhoods and houses, faces more targets and obstacles, in more vivid colours than ever before.
Plus, rad stunt riding and BMX tracks in bonus rounds. Choose to ride as either Paperboy or Papergirl too!





MINDSCAPE

For your local dealer, contact **Mindscape International Ltd,** The Coach House, Hooklands Estate, Scaynes Hill, West Sussex RH17 7NG. Tel: 0444 831 761


HEIMDALL
Norse legend tells of a time when the Gods of Valhalla and Asgard created a race known as the Vikings. Born to represent his people at the battle of Ragnorak, Heimdall must first fight, solve puzzles and explore the Viking world to find the weapons of the Gods.
heimdall
AVAILABLE ON COMMODORE AMIGA, ATARI ST AND IBM PC COMPATIBLES
CORE
DESIGN LIMITED
SCREEN SHOTS TAKEN FROM AMIGA VERSION
VISA
Tradewinds House 69/71A Ashbourne Road Derby DE3 3FS Telephone: (0332) 297797 Facsimile: (0332) 381511



AMIGA

STAND-ALONE 500 COMPUTER

● 512K AMIGA	£329.99
● TV MODULATOR	FREE
● MOUSE CONTROLLER	FREE
***PLUS!* - FREE FROM SILICA**	
● ARCADE ACTION PACK	£229.78
● PHOTON PAINT 2.0	£89.95
TOTAL RRP:	£649.72
YOU SAVE:	£320.72
SILICA PRICE:	**£329**

PLUS! ***FREE*** HOLIDAY ACCOMMODATION

£329

SILICA PRICE - INCLUDES VAT + FREE DELIVERY

NEW! CARTOON CLASSICS PACK

HARDWARE:

512K AMIGA 500	£329.99
A520 TV MODULATOR	FREE
A501 RAM EXPANSION	£99.99

SOFTWARE - ENTERTAINMENT

BART SIMPSON	£24.99
CAPT PLANET & PLANETEERS	£25.99
LEMMINGS	£25.99

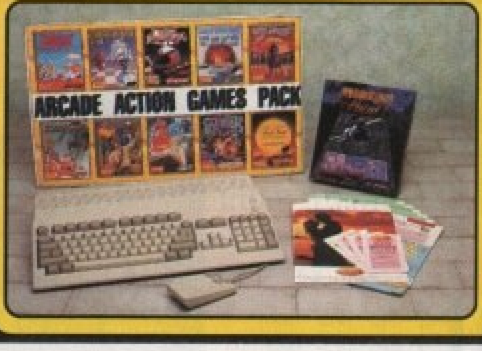
SOFTWARE - PRODUCTIVITY

DELUXE PAINT III	£79.99
PLUS! *FREE FROM SILICA*	
ARCADE ACTION PACK	£229.78
PHOTON PAINT 2.0	£89.95
TOTAL RRP:	£906.67
YOU SAVE:	£507.67

PLUS! 16 NIGHTS FREE HOLIDAY ACCOMMODATION

£399

SILICA PRICE - INC VAT + FREE DELIVERY

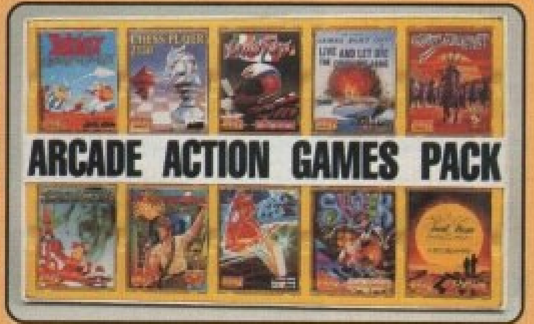


FREE! FROM SILICA WITH EVERY AMIGA

ARCADE ACTION PACK

The new Arcade Action Games Pack is THE software compendium for Amiga owners, featuring ten top titles with a variety of different types of games for you to enjoy. Each title is packaged in its own plastic case, with a colour sleeve and full instructions. The Arcade Action Pack is FREE! when you buy your Amiga 500 from Silica.

FREE! WORTH: **£219.78**



FREE! PHOTON PAINT 2.0 GRAPHICS PACKAGE

Every Amiga 500 from Silica Systems comes with a FREE Photon Paint 2.0 (RRP £89.95), one of the most advanced art packages available for the Amiga. With it, you will be able to harness the extraordinary graphics power of the Amiga and produce inspirational pictures in minutes. With 4096 colours, your pictures will reach life-like appearance. These can be animated in real-time using a vast range of graphical effects, including blending colours and dithering, stencils, shadowing, contour mapping and surface mapping.

WORTH **£89.95**



FREE! 16 NIGHTS HOLIDAY HOTEL ACCOMMODATION

Every Amiga from Silica comes with a FREE 72 page, full colour brochure with accommodation vouchers. These vouchers entitle 2 people to stay up to 16 nights in one hotel (or any number of hotels to a total of 16 nights) with accommodation FREE (you could take up to six nights for four people, or other options). Choose from the 250 hotels featured in the catalogue. All you have to pay for are your meals (prices are listed in the brochure). Reduced rates in top London hotels and hotels in France are also featured.



TOTAL FREE PACKAGE

***ARCADE ACTION PACK* - £229.78:**

Asterix - *By Coktel Vision*	£24.99
Chess Player 2150 - *By CP Software*	£24.95
Drivin' Force - *By Digital Magic*	£24.95
Live & Let Die - *By Elite*	£19.99
Onslaught - *By Hewson*	£24.99
Pipe Mania - *By Empire Software*	£24.99
Rick Dangerous - *By Firebird*	£24.99
Rock 'n' Roll - *By Rainbow Arts*	£19.99
Skweek - *By US Gold*	£19.99
Trivial Pursuit - *By Domark*	£19.95

***ART PACKAGE* - £89.95:**

Photon Paint 2.0 - *By MicroIllusions*	£89.95
TOTAL RRP:	£319.73

FREE! WORTH NEARLY: **£320**

PLUS! ***FREE*** HOLIDAY ACCOMMODATION

SILICA SYSTEMS OFFER YOU

- ***FREE OVERNIGHT COURIER DELIVERY:*** On all hardware orders shipped in the UK.
- ***TECHNICAL SUPPORT HELPLINE:*** Team of Amiga technical experts at your service.
- ***PRICE MATCH:*** We normally match competitors on a ''Same product - Same price'' basis.
- ***ESTABLISHED 12 YEARS:*** Proven track record in professional computer sales.
- ***BUSINESS + EDUCATION + GOVERNMENT:*** Volume discounts available for large orders.
- ***SHOWROOMS:*** Demonstration and training facilities at our London & Sidcup branches.
- ***THE FULL STOCK RANGE:*** All of your Amiga requirements from one supplier.
- ***FREE CATALOGUES:*** Will be mailed to you with offers and software/peripheral details.
- ***PAYMENT:*** By cash, cheque and all major credit cards.

Before you decide when to buy your new Amiga computer, we suggest you think very carefully about WHERE you buy it. Consider what it will be like a few months after buying your Amiga, when you may require additional peripherals or software, or help and advice with your new purchase. And, will the company you buy from contact you with details of new products? At Silica Systems, we ensure that you will have nothing to worry about. We have been established for over 12 years and, with our unrivalled experience and expertise, we can now claim to meet our customers requirements with an understanding which is second to none. But don't just take our word for it. Complete and return the coupon now for our latest Free literature and begin to experience the ''Silica Systems Service''.

MAIL ORDER HOTLINE **081-309 1111**

SILICA SYSTEMS

MAIL ORDER: 1-4 The Mews, Hatherley Rd, Sidcup, Kent, DA14 4DX	Order Lines Open: Mon-Sat 9.00am-6.00pm · No Late Night Opening	**Tel: 081-309 1111** Fax No: 081-308 0608
LONDON SHOP: 52 Tottenham Court Road, London, W1P 0BA	Opening Hours: Mon-Sat 9.30am-6.00pm · Late Night: Thursday until 8pm	**Tel: 071-580 4000** Fax No: 071-323 4737
LONDON (SELFRIDGES): 1st Floor, 369 Oxford Street, London, W1A 1AB	Opening Hours: Mon-Sat 9.30am-6.00pm · Late Night: Thursday until 8pm	**Tel: 071-629 1234** Ask for extension 3914
SIDCUP SHOP: 1-4 The Mews, Hatherley Rd, Sidcup, Kent, DA14 4DX	Opening Hours: Mon-Sat 9.00am-5.30pm · Late Night: Friday until 7pm	**Tel: 081-302 8811** Fax No: 081-309 0017

To: Silica Systems, Dept AMCOM-192-60, 1-4 The Mews, Hatherley Rd, Sidcup, Kent, DA14 4DX

PLEASE SEND FREE AMIGA COLOUR CATALOGUE

Mr/Mrs/Ms: .... Initials: .... Surname: ....

Address: ....

....

....

Postcode: .... Tel: ....

Which computer(s), if any, do you own? 60

The Great Graphics Giveaway!

Want to design artwork like this month's *AC* cover? We give you that chance with this month's amazing competition!

Yes, waiting to be won is a copy of Activa's Real 3D Professional – worth over £400 – the actual package used to design our cover!

Should you not have an accelerator – essential due to the immense power of this professional package – then you'll be flabbergasted to know that we're also giving away a copy of *3D Professional*'s little brother, *Real 3D Beginners*. Worth around £150, this package is an ideal introduction to the fascinating world of ray tracing.

Third prize is a brilliant video titling package. Now you can utilise professional video effects and produce impressive, up-to-date titles and credits on your own videos or recordings. The *Big Alternative Scroller* – worth a cool £50 – can be yours for absolutely nothing!

All of the answers can be found in either this or recent issues of *AC*, so get searching! To enter this fabulous competition, simply answer the questions for the package(s) you're interested in. Then fill in the rest of the entry form, cut it out (or use a photocopy if you'd prefer not to destroy your magazine) and send it to the address below before January 2, 1992. Good luck!

Questions...

...for *Real 3D Professional*

1 Which of the following were the original creators of Real 3D?
A Dr Henri Bujko and Prof Juri Large ☐
B Dr Michael Mouse and Mr Chip Dale ☐
C Juha and Vesa Meskanen ☐

2 Would increasing the recursion depth within an environment alter rendering times?
A Yes – and especially if highly reflective items are part of the scene ☐
B No - because recursion only plays a part in the design phase ☐
C Won't make a scrap of difference – what a stupid question! ☐

...for *Real 3D Beginners*

1 Which would render fastest on a chequered landscape – a hollow glass ball or a plain, solid block?
A The hollow glass ball ☐
B The plain, solid block ☐
C Almost identical for both objects ☐

2 Is there a limit to the number of possible light sources?
A No – you can have as many as you like ☐
B Yes – 10 separate sources is the maximum within any environment ☐
C No – but you can't have more than three of any one colour ☐

...for the *Big Alternative Scroller*

1 Can B.A.S. use standard Amiga fonts?
A Yes – all standard fonts can be used within the software ☐
B No – the package uses its own internal fonts ☐
C It can use both internal and external fonts ☐

2 In which screen format does B.A.S. operate?
A High-res, full overscan using interlace ☐
B Lo-res, with 16 colours and without interlace ☐
C Ham ☐

Send to: The Great Graphics Giveaway, Amiga Computing, Europa House, Adlington Park, MACCLESFIELD SK10 4NP

GRAND GRAB

What's up for grabs

● The first winning entry drawn will receive a fantastic Philips CM8833/II monitor from Gordon Harwood Computers



● The next 15 winners will receive copies of Terminator 2, the all-action movie licence from Ocean



● Fifteen further winners will receive a copy of Bart versus the Space Mutants, the blockbuster Simpsons game from Ocean



● Last, but certainly not least, 10 lucky winners will take away copies of Soft Stuffs' Magic Storybook education software

LAST MONTH'S DRAW

Last month we performed another GRAND GRAB draw, revealing the lucky winners of two Golden Image scanners and 80 super games.

The scanners go to I Cassidy from Kent and M Walker from Reading. There isn't enough space this month to list all the game winners, but rest assured, we will be in touch soon!

THIS MONTH'S PRIZE

Last month every cover of *AC* featured a unique GRAND GRAB serial number. Check your number against those listed below. If it matches any of them you are well on the way to winning a superb prize.

How to win

000064	006348	020777	027888	036443	044576	053666	061754	069532	077443	085505	093990	101949	111991	124550	133666
000105	006978	021111	027953	036642	044832	053887	061888	070325	077543	085729	094313	102564	112567	124990	133887
000267	007352	021643	028001	036995	044990	053990	061949	070648	077667	086345	094440	102644	113765	125274	133990
000376	007453	021666	028375	037332	045274	054313	062564	070777	077888	086443	094576	102858	114976	125505	134313
000489	007745	021754	029532	037443	045505	054440	062644	071111	077953	086642	094832	103243	114990	125729	134440
000590	008033	021888	030325	037543	045729	054576	062858	071643	078001	086995	094990	103467	115963	126345	134576
000698	008290	021949	030648	037667	046345	054832	063243	071666	078375	087332	095274	103666	116987	126443	134832
000731	008463	022564	030777	037888	046642	054990	063467	071754	079532	087443	095505	103887	117443	126995	134990
000825	008699	022644	031111	037953	046995	055274	063666	071888	080325	087543	095729	103990	117873	127332	135274
000942	009002	022858	031643	038001	047332	055505	063887	071949	080648	087667	096345	104313	118376	127443	135505
000958	009322	023243	031666	038375	047443	055729	063990	072564	080777	087888	096443	104440	118543	127543	135729
001132	009463	023467	031754	039532	047667	056345	064313	072644	081111	087953	096642	104576	119765	127667	136345
001236	009587	023666	031888	040325	047888	056443	064440	072858	081643	088001	096995	104832	120325	127888	136443
001354	009732	023887	031949	040648	047953	056642	064576	073243	081666	088375	097332	104990	120648	127953	136642
001498	010176	023990	032564	040777	048001	056995	064832	073467	081754	089532	097443	105274	120777	128001	136995
001532	010564	024313	032644	041111	048375	057332	064990	073666	081888	090325	097543	105505	121111	128375	137332
001643	011256	024404	032858	041643	048546	057443	065274	073887	081949	090648	097667	105729	121643	129532	137443
001738	011991	024550	033243	041666	049945	057543	065505	073990	082564	090777	097888	106345	121666	130325	137543
001842	012567	024832	033467	041754	050325	057667	065729	074313	082644	091111	097953	106443	121754	130648	137667
001876	013765	024990	033666	041888	050648	057888	066345	074440	082858	091643	098001	106642	121888	130777	137888
001920	014976	025274	033887	041949	050777	057953	066443	074576	083243	091666	098375	106995	121949	131111	137953
002243	014990	025505	033990	042564	051111	058001	066642	074832	083467	091754	099532	107332	122564	131643	138001
002555	015963	025729	034313	042644	051643	058375	066995	074990	083666	091888	099778	107443	122644	131666	138375
002767	016987	026345	034440	042858	051666	058546	067332	075274	083887	091949	100325	107543	122858	131754	139532
002874	017443	026443	034576	043243	051888	059945	067443	075505	083990	092564	100648	107667	123243	131888	140142
003987	017873	026642	034832	043467	051949	060325	067543	075729	084313	092644	100777	107888	123467	131949	141544
004020	018376	026995	034990	043666	052564	060648	067667	076345	084440	092858	101111	107953	123666	132564	142876
004244	018543	027332	035274	043887	052644	060777	067888	076443	084576	093243	101643	108001	123887	132644	143524
004543	019765	027443	035505	043990	052858	061111	067953	076642	084832	093467	101666	108375	123990	132858	144436
005754	020325	027543	035729	044313	053243	061643	068001	076995	084990	093666	101754	109532	124313	133243	145365
005832	020648	027667	036345	044440	053467	061666	068375	077332	085274	093887	101888	111256	124404	133467	146238

● If your GRAND GRAB number from *Amiga Computing* issue 43 (December 1991) matches any of those listed above, carefully complete your claim form
● Photocopies of winning GRAND GRAB number panels will not be accepted
● The first 41 fully completed GRAND GRAB claim forms to be drawn from the compiled entries on January 2, 1992 will win the GRAND GRAB prizes

GRAND GRAB claim form

Name ____________________

Address ____________________

____________________ Home telephone ____________________

Attach GRAND GRAB winning number panel here:
(Photocopies not accepted)

Question:

What is the is the name of *Amiga Gamer's* chart section?

(a) Talking Shop ☐ (b) Shop Talk ☐ (c) Chart Attack ☐

Send this completed coupon to: GRAND GRAB CLAIMS, *Amiga Computing*, Europa House, Adlington Park, Macclesfield SK10 4NP

1. *Amiga Computing* GRAND GRAB is open to all readers with the exception of Europress Group employees, agents and advertisers.
2. Each claimant MUST complete the skill question on the GRAND GRAB claim form before their entry becomes valid.
3. The main GRAND GRAB prizes will be awarded to the first 41 claimants drawn from assembled entries on 2 January, 1992.
4. All remaining claimants will receive unspecified runner-up prizes.
5. *Amiga Computing* reserve the right to substitute prizes without notice.
6. The editor's decision is final and no personal correspondence can be entered into as a result of a GRAND GRAB claim.
7. All successful claimants will be listed in future issues of *Amiga Computing*.

stereo MASTER

When you are considering purchasing a sound sampler there are plenty to choose from. Why compromise? your choice should be the new full featured STEREO MASTER for the Amiga, with software that is designed from our top selling Amiga sampler AMAS and a package that gives you more extras than a M series BMW. By purchasing this state of the art product which combines a quality sampler with the expertise of over 10 years of software programming, you are purchasing a top quality product with the knowledge that it is not only compatible with existing Microdeal products but will also be with future ones.

What is Stereo Master

Stereo Master is a low cost, high quality sound sampler for the Amiga range of computers. The sampler cartridge included in this package plugs into the printer port at the rear of the computer and allows you to analyze the sounds coming in from devices such as Personal Cassette Players, Compact Disc Players etc. or change the way they sound using the Real Time Special Effects or record them. Once in the computer STEREO MASTERS unique editor will enable you to edit the sound in practically any way you can imagine. Once you have the sound sample how you want it, you may incorporate it into your own Demo's or use STEREO MASTERS own built in sample sequencer to play back the sample in sequence with other samples!



MAIN SCREEN

The Sampling Software

Every feature you would expect to find in a professional editing suite including;

* Real time record/play ghost markers
* Cut or Delete selected sample area
* Mix sample with full or half volume
* Shrink in by 25%/50%/75% by drag or wipe
* Fade in/out with selectable degree of fade
* Filter sample with soft/medium/hard filter
* Selectable trigger volumes
* Record frequency from 3.0 to 55.9 Khz
* Full editing and control facility for left/right channels
* Playback volumes
* Decrease volume
* Increase volume
* Bounce sample
* Paste sample
* Trigger recording
* Clear left/right samples
* Loop sample

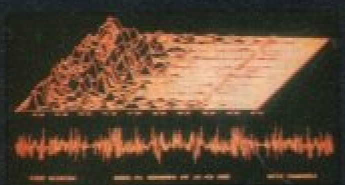


THE SPECIAL EFFECTS CONTROL PANEL

The Special Effects Software

For the first time ever you can emulate special sound effects in real time just like the sound labs can for film studios, normally the hardware to produce these effects would cost 100's of times more than this package. Features on the FX menu include;

* Built in real time special effects including Echo, Reverb, Ramp, Pitch up/down, Stereo bounce, Multi echo Chorus, Phaser, Reverse and Pitch bend.
* Fully programmable special effects so that customised effects can be recalled



3D DISPLAY OF SAMPLE FREQUENCIES (FFT)

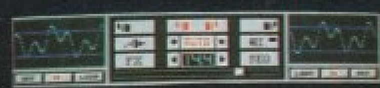
The Analytical Software

A whole host of pro-type analytical functions include;

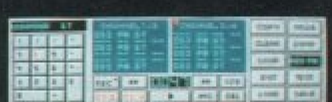
* 3D display of sample frequencies (Fast fourier transform)
* 3D display also includes 2D envelope display plus sample information.
* Built in Stereo spectrum analyzer
* Stereo Oscilloscopes with trigger markers



STEREO SPECTRUM ANALYZERS



STEREO OSCILLOSCOPES



THE SEQUENCER CONTROL PANEL

The Sequencing Software

Our built in sample sequencer allows you to take up to 18 samples (memory permitting) and sequence them into your own "tronic" mixes, features on the sequencer include;

* Real time entry of sequences from keypad
* Step time entry of sequences
* 2 stereo channels for sequencing
* Storyboard style editing
* Digital sequence position display
* Fast forward/rewind controls
* Program sample to keypad
* Stand alone demo player displays IFF picture whilst playing sequence
* Sequence copy function
* Loop sample
* Selectable sequence speed
* Dump/re-edit function
* Test function
* 2 octave playback
* Insert/delete sample in step time

microdeal

Other innovative features

We know this product is years ahead of its time and these additional features justify our boast;

* New style stereo cartridge
* Produces stand alone executable sample files
* Fully multi tasking
* Saves in IFF/Raw/Instrument1/3/5 Octave
* Includes walkman type cable
* PAL/NTSC full screen display
* Can create workbench icons
* Save customised settings

AMIGA STEREO MASTER ORDER FORM AMIGA

STEREO MASTER IS £39.95 Post & Packing £1 (All prices inc. V.A.T.)

BY PHONE WITH CREDIT CARD



(0726) 68020

BY POST With cheque, Postal Order or Credit Cards.

Name... ....

Address ....

....

..........................Postcode..................

Credit Card Type..........................Expiry Date..................

Number ....

Please allow 28 days for delivery

SEND TO: Microdeal PO BOX 68 St Austell Cornwall England PL25 4YB

UPDATE AMIGA

We set out on our monthly mission to keep your finger on the pulse of the ever-changing Amiga market

As you've probably noticed, many of the serious Amiga packages have become firmly entrenched in their respective market positions. As a result, this all-new section is devoted to keeping you in touch with the latest developments in all areas of the machine.

Because most serious software is constantly being upgraded it's almost impossible to keep pace via the usual features process. Now we can bring you the information as it happens, so watch this space for the latest news and advice on the sometimes expensive and occasionally essential developments in the area of upgrades.

To open this new column we'll look at what is surely the Amiga's premier image processing system. ADPro has long been an essential part of any Amigan paintbox, and its position is unlikely to be challenged, thanks to its latest reincarnation.

ADPro 2.0 has had a major face-lift thanks primarily to the inclusion of JPEG compression, a system which somehow manages to attain compression ratios an amazing 1/80th of the original size when applied to 24-bit imagery.

Other sweeteners include the ability to print accurate 24-bit colour and 8-bit grey scale images via Preferences. Before, the best the Amiga could manage was 12-bit for colour and only 4-bit for grey scale.

It's even possible to print unlimited size, full colour 24-bit posters, something which even the most powerful Macs can't do without a good few Valium down 'em.

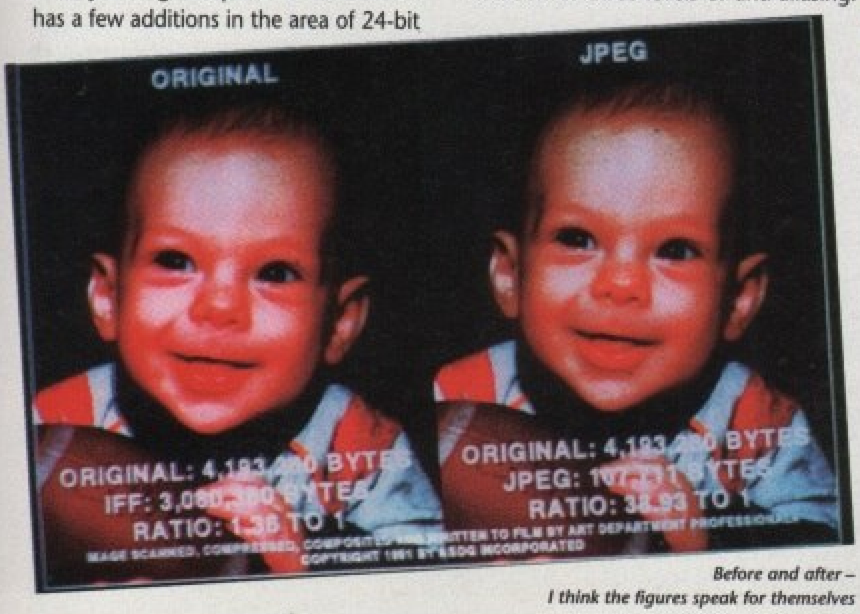
As you might expect the new ADPro has a few additions in the area of 24-bit boards. Support has been added for Digital Creation's DCTV, GVP's IV24, and of course our old friend the Harlequin from ACS.

If you've not already moved over to WorkBench 2.0, it could well be time to start saving for the ECS as the all-new ADPro includes a wysiwyg anti-aliased text operator which employs the talents of Kickstart 2.0's scalable fonts.

Perhaps the most pleasant user friendly addition is that of a universal loader which automatically detects the format of the file in question and sets about importing it without the usual hassle of searching through the ever-growing mountain of ADPro loaders.

By the time this particular literary masterpiece hits the streets the new ADPro should have arrive in the UK, so for more information contact the Silica Shop on 081-309 1111. The present price quoted is £199.95 including VAT but this may change so have a few extra quid on hand just in case.

Paul Austin



Before and after – I think the figures speak for themselves

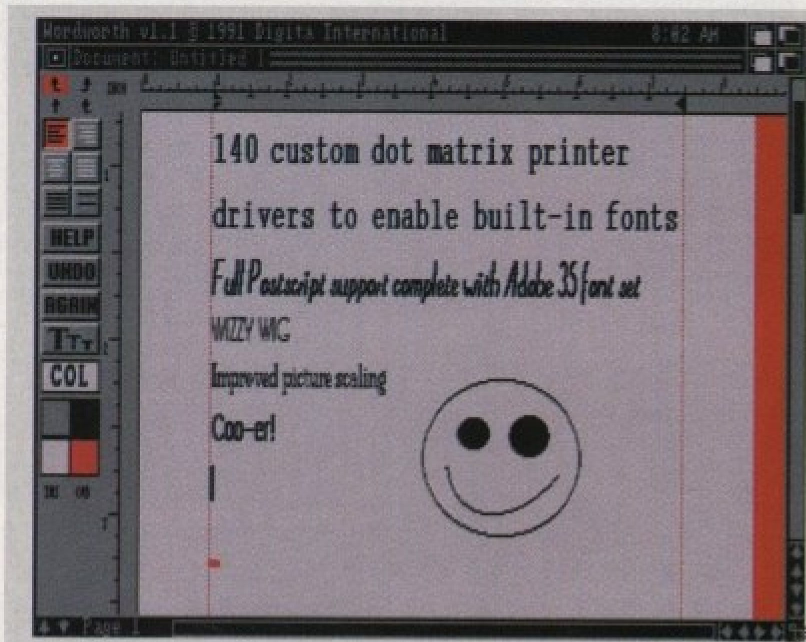
Smooth stylish Scala

If you're not a connoisseur of DTV or multimedia the rather enigmatic title of Scala won't mean an awful lot, but if in future you plan to turn your attentions to either of the afore-mentioned areas it could become the package of you dreams.

The new 1.1 version is certainly an attempt to make those dreams even sweeter thanks to the inclusion of some additional whistles and bells to an already excellent program.

Perhaps the biggest change is the addition of three levels of anti-aliasing.

➤



Wordworth v1.1

In its original form, Digita International's Wordworth wordprocessor was one of the best available on the Amiga. With version 1.1, it may just have sneaked to the number one spot, pushing Protext, the Amiga's answer to Bryan Adams, from its long-held position.

First the bug fixes. The original was fairly bug-free, so there's only really one to report. The Check Single Word spelling function, for some reason, didn't allow the user to automatically substitute the suggested word for his or her own. This has now been fixed.

Lovely lasers

The most significant addition to version 1.1 has to be its support for PostScript, the language spoken by most of the better laser printers. By creating a document in PostScript fonts, the user can now produce hard copy of a quality limited only by the laser printer.

Digita have resisted the temptation to make PostScript a "bolt-on" upgrade. Instead, they have fully integrated it, such that PostScript printing – complete with page scaling – appears on its own screen within the printing preferences section. On the whole, PostScript implementation is smooth, seamless, and very neatly done. In addition, the Wordworth fonts disk contains a full set of Adobe 35 PostScript fonts (giving 35 typefaces when bold, italic, and underline are used), and a generous 140 custom printer drivers.

This latter feature will be of immense interest to users of the more expensive dot matrix printers who've never bothered to make use of the printer's built-in fonts or who've tried but been foiled by the manual.

Font heaven

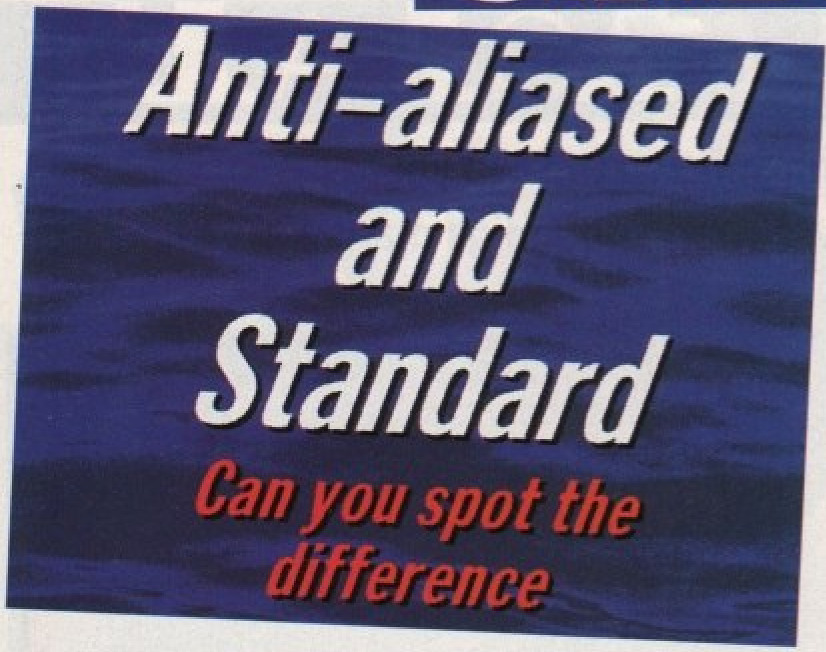
If, for example, you have a Star LC-10 and the driver and printer fonts have been installed (made painless by a point and click installer), you can select the printer's internal fonts from Wordworth's standard font requester. In this way, using all the printer's fonts in a single document is as easy as using any Amiga font.

This feature alone would make Wordworth 1.1 an immensely attractive buy for many dot matrix owners, but when taken in conjunction with PostScript fonts, page scaling, page preview, and colour NLQ printing, the upgrade makes Wordworth the most complete and desirable Amiga wordprocessor. Sorry Protext!

Stevie Kennedy

Phone Digita on 0395 270273 for further details.

UPDATE



➤ Unfortunately I can't really say that the enhancement is particularly spectacular, as you can probably tell from the screenshot (above).

The anti-aliasing has been applied to the words "Anti-aliased" and also the "and", but unless your eyesight is a good deal better than mine I doubt you'll see much improvement.

As well as the rather anti-climatic anti-aliasing come four or five extra whips and fades, which will no doubt add a little more range to your presentations.

To be fair, many of the major improvements are hidden away in the bowels of the software so it's perhaps a little early to complain. All the new elements are listed below so have a browse and see if anything suits your palette.

As I said there are not a great number of changes on the surface, but under the skin there's quite a lot going on.

Unfortunately there is a downside. For some ridiculous reason the software still doesn't support continuous cycling. Instead we're limited to the original standard of 99 loops, after which intervention is required from the user to restart the presentation.

Why can't a continuous option be added? Scala's big brother, namely Info Channel, already supports it, so why isn't it included?

Life would become a lot easier for those of us interested in product display and unmanned multimedia applications.

If you do invest make sure you receive the latest 1.1 manual, as some packages have been shipped with the older model. Without the updated version you'll have a very hard time digging out some of the more subtle improvements.

Paul Austin

New features

- ARexx support
- Canon Stillvideo control
- Anim RealTime buffering
- Colorfont support
- Full support for outlined fonts under WorkBench 2.1
- Automatic remapping of brushes and colorfonts
- SuperImpose transition
- A to Z transition
- Layout box display
- Full dead-support
- New controls for remapping, underline air and underline position
- Improved loading time on A3000 – now up to five times as fast
- Automatic polarity buffering for interactive applications
- New function key commands

Hit Kit axed!

Those Mancunian musos at Gajits music software have made a novel move in the already confusing area of upgrades by ignoring the predictable path of constant additions. Oh no, they're actually taking something out, namely the Hit Kit!, which in the past was bundled free with any purchase of Sequencer 1.

In brief, the Hit Kit! is a collection of various complementary Midi sequences which cover all manner of musical styles. It allows you to build entire songs by simply combining their various component parts.

Drum patterns, middle eights, bass lines, arpeggios – they're all there, and in just about every style from Latin to House. It's even possible to produce complete songs, but if you're in the market for a record contract I wouldn't advise it...

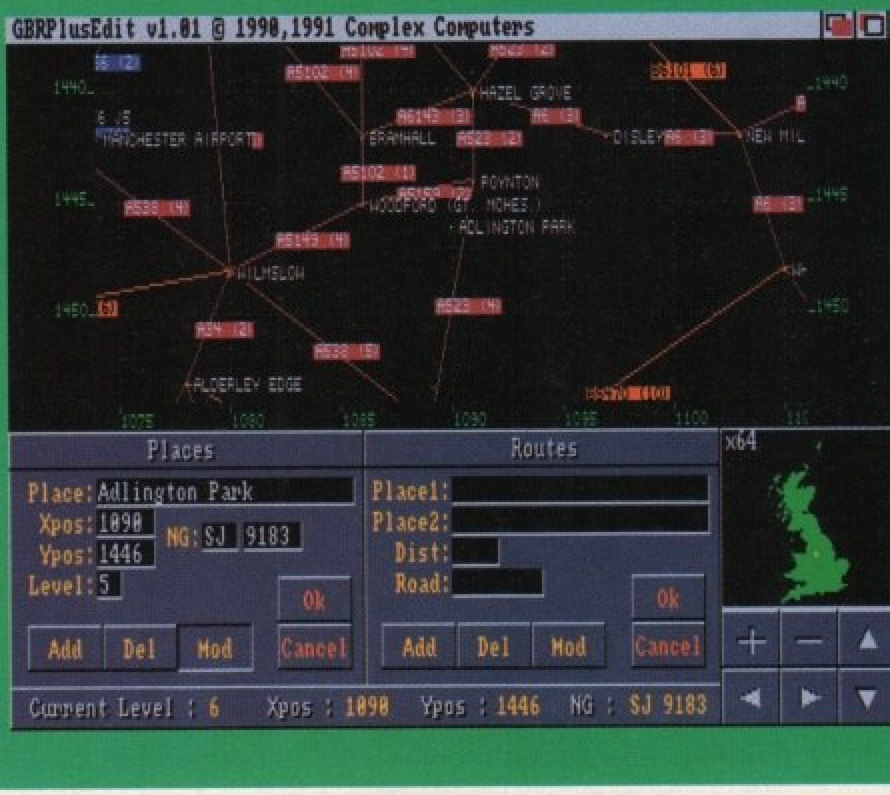
Now before you all head for the hankies, it's not as bad as it sounds. The Hit Kit! isn't dead, it's just gone to a better place, and in the process it has had some extra bits added.

As a result it now appears as a standalone package which will retail for £29.95. So for those of you who want to adopt the Lego approach to music making it could be an ideal Christmas present.

GB Route Plus Edit

GB Route Plus, as reviewed last month, stands as the only serious Amiga route-finder program and, though greatly improved over the original version, it isn't perfect. The release of GB Route Plus Edit should bring the program closer to its optimum performance.

The editor is a very simple program whereby the GB Route Plus user can alter the map used by the main program. Alterations are carried out on a full copy of the original map, places and routes being added with the mouse and a system of X/Y coordinates.



Small town boy

If, therefore, you're a bit miffed at not finding your village marked on the GB Route map, it is a matter of minutes to amend the data, add the roads to connect your rural domicile to the outside world, and save the results to your GB Route disk. The program is very easy to use and will allow any number of alterations to be made to the original map.

Unfortunately, you cannot alter the positions of the locations given in the original map, and it isn't possible to amend the details given for roads or sections of road already on the map.

This means you couldn't, for instance, decide to lower the speed rating of a section of motorway you know will be suffering from roadworks for a few months, but as you can compensate for this in GB Route through various preferences settings, the omission isn't damaging.

The XPOS and YPOS coordinate system used by the editor is fairly accurate, and should allow the placement of new towns to within half a mile or so, so it's accurate enough for the purposes to which GB Route puts the map. You can enter locations in national grid coordinates, but the X/Y system is more precise.

In large towns and cities, it should be good enough to enable the inclusion of detailed delivery routes to individual customers, depots, or even the locations of real ale pubs, cash and carry warehouses, and hospitals.

The uses to which GB Route can now be put, thanks to GB Route Plus Edit, are limited only by the needs of the person using it.

As the program is currently available to registered users for only £9.95, it represents a bargain you shouldn't be without.

Stevie Kennedy

Complex Computers can be reached on 0706 224531.

CARTOON CLASSICS MEGA 21 New GORDON

21 MEGA GAME 1Mb.

HARWOODS POWERPLAY PACK 1 COMES OF AGE WITH 21 GREAT GAMES AND INCLUDES 1Mb. AMIGA CARTOON CLASSICS WITH THE SIMPSONS, LEMMINGS AND CAPTAIN PLANET PLUS 18 EXTRA GAMES ONLY FROM HARWOODS!!!

ALL OUR AMIGAS ARE UNITED KINGDOM SPECIFICATION AND INCLUDE THE FOLLOWING...

1 Mb. Disk Drive
1Mb Ram Memory
TV Modulator
4096 Colours
Multi Tasking
Speech Synthesis
4 Channel Digital Stereo Sound
Amiga Mouse
Operation Manuals
Workbench Disks
ALL Connecting Cables

PLUS...All OUR Amigas are backed by Harwoods Great Service
[Please see full details in our Ordering Made Easy' panel final page]



MEGA 21
AMIGA
1
PACK 1
POWERPLAY

THAT'S RIGHT HARWOODS HAVE PUT TOGETHER THE ULTIMATE AMIGA PACKS YET AGAIN... STARTING WITH POWERPLAY PACK 1 WHICH INCLUDES 21 GREAT GAMES!

Just look at what you get NOW...

Our packs always contain Professional Games NOT PD or multi-game disk titles

- **AMIGA A500 COMPUTER WITH A FULL 1Mb. OF MEMORY!**
- **THE SIMPSONS, BART vs THE SPACE MUTANTS** - Thats right man! you can play the computer version of this popular TV cartoon. By Ocean.
- **CAPTAIN PLANET** - created from the award winning TV show, now's your chance to save the earths environment with this ultimate adventure... your Eco-Copter is waiting. By Mindscape.
- **LEMMINGS** - Are you as smart as Lemmings are stupid, match your intelligence against their lack of it as you play the 140 levels of the most original game of '91 (European Computer Leisure Awards Winner). By Psygnosis.
- **EDUCATIONAL BASIC LANGUAGE** FOR CREATING YOUR OWN PROGRAMS
- **DELUXE PAINT III** GRAPHICS PACKAGE WITH ANIMATION
- **TAILORED DUST COVER AND MOUSE MAT**
- **AND A SUPERB HIGH QUALITY MICROSWITCHED JOYSTICK,**
- **PLUS.... 18 MORE GREAT GAMES,** THERE'S SOMETHING FOR EVERYONE...

BLOODWYCH - Fantasy role-playing game, great interaction with your computer created environment
BUBBLE+ - Help the dawdling ghost and the soap bubble, escape from the old deserted manor house
CAPTAIN BLOOD - Astonishing creatures and animated 3D graphics, this is a game you just have to play
ELIMINATOR - A progressive multi stage flying shoot 'em up, on a long winding course, survive if you can!
HOSTAGES - You must get your team and hostages out of the terrorist overrun embassy, without loss of life
JUMPING JACKSON - In a deluge of colour and sound save, the earth from sadness and melacholy music
KRYPTON EGG - A classic Breakout game, 60 screens, separated by 6 combat sequences
LANCASTER - Your mission is to fly the classic WWII bomber on its dangerous raids over enemy teritiory
LOMBARD RAC RALLY - You drive your 300 bhp Sierra Cosworth through demanding stages of the rally
PURPLE SATURN DAY - Four arcade games, an exciting high speed trip into total cosmic 3D space
SAFARI GUNS - Live the African experience in an animal sanctuary, track the poachers & ivory traffickers
STIR CRAZY (Featuring Bobo) - Bobo & his inmates are planning a stunning trampoline jump prison escape
SKYCHASE - Airborne combat for every simulation fan. In this one or two player game, battle against your MIG flying adversary in your F-16 Falcon.
SKYFOX II - Skyfox II, the only ship fast enough to carry on the Skyfox legend. Fight to blow your federation enemies from the Galaxy, at speeds of 9000 kilometres/second!
STRIKE FORCE HARRIER - Puts you in the cockpit of one of Britains most exiting fighter aircraft. Multiple skill levels let you progress to become an ace pilot
TINTIN ON THE MOON - We've been captured by Colonel Jorgen and he's tring to scupper the moon mission. Come on Tintin, you're the only one who can save us, and be the first on the moon
TV SPORTS FOOTBALL - Strap on your helmet for American football simulation that looks like the real thing.
XENON 2 MEGABLAST - This time it's war! The Xenites are back and have thrown time itself into turmoil.

We reserve the right to substitute individual software titles or pack items should the need arise.

CARTOON CLASSICS MEGA 21

NEW HARWOODS EXCLUSIVE!

...AND HARWOODS ALSO GIVE YOU A SUPERB BROCHURE OFFERING UP TO 16 NIGHTS FREE HOTEL ACCOMODATION IN AN EXTENSIVE SELECTION OF 400 HOTELS AROUND THE UK PLUS NOW A SPECIAL BUDGET FRANCE SUPPLEMENT IS INCLUDED!

Priced at an INCREDIBLE

£399.95

Including VAT

DON'T FORGET THAT WHILST YOU CAN OF COURSE PLAY THE GREATEST GAMES, WHEN YOU CHOOSE THE AMIGA YOU ARE ALSO GETTING A VERY POWERFUL PERSONAL COMPUTER. PROJECTS SUCH AS PROGRAMMING, GRAPHIC DESIGN, WORD PROCESSING OR OTHER BUSINESS APPLICATIONS, EDUCATION FOR A WHOLE HOST OF SUBJECTS FROM PRIMARY LEVEL TO 'O'LEVEL ARE ALL A REALITY WITH THE SYSTEM THAT YOU CAN REALLY GROW WITH AS YOUR COMPUTING EXPERIENCE EXPANDS. EUROPEAN COMPUTER OF THE YEAR 1991, EUROPEAN COMPUTER LEISURE AWARDS

SOUND AND VISION

Words and Pictures

CDTV



IMAGINE, IF YOU CAN, THE CONCEPT OF A NEW, MORE POWERFUL AMIGA...

...WITH 1 MEGABYTE OF MEMORY, AND A COMPACT DISK DRIVE OF ALMOST INFINITE SIZE. A DISK DRIVE SO VAST, IT CAN STORE HUNDREDS OF MILLIONS OF DIGITS OF DATA. THIS DATA COULD BE, SPEECH, ANIMATED PICTURES, DIGITISED STEREO SOUND, COMPUTER IMAGES OR WHOLE ENCYCLOPAEDIAS.... AND MORE.

IMAGINE THIS, AND YOU CAN START TO GRASP THE CONCEPT OF CDTV.

THE INTEGRAL COMPACT DISK DRIVE, IS THE KEY TO THE POWER OF CDTV. ITS STORAGE CAPACITY IS EQUIVALENT TO AROUND A QUARTER OF A MILLION FULL PAGES OF TEXT. THIS WHEN INTEGRATED WITH THE 1 MB OF INTERNAL AMIGA CIRCUITRY, CREATES A SYSTEM, WHICH FROM A CD DISK, CAN GIVE YOU ACCESS TO AN UNIMAGINABLE SPECTRUM OF REAL WORLD IMAGES, NEVER SEEN COMBINED BEFORE. THESE VIVID IMAGES, WITH WORDS AND SOUNDS, GIVE YOU A WHOLE NEW DIMENSION IN HOME EDUCATION, ENTERTAINMENT & INFORMATION TECHNOLOGY. AND... DON'T FORGET, THAT CDTV CAN PLAY IN SUPERB QUALITY, ANY NORMAL AUDIO MUSIC CD, AND IT CAN ALSO PLAY THE NEW CD+G DISKS, WHICH GIVE DIGITAL SOUND AND ON SCREEN GRAPHICS. ON CD DISKS NOW AVAILABLE, THERE ARE EDUCATIONAL PACKAGES, ENCYCLOPAEDIAS PACKED WITH REFERENCE INFORMATION, STUNNING GAMES, MUSIC SYSTEMS AND MANY OTHER NEW AND VARIED SUBJECTS, INCLUDING WHOLE WORLD ATLASES OR EVEN THE COMPLETE WORKS OF SHAKESPEARE, EACH ON ONE CD DISK!!! **CDTV - NOTHING LESS THAN REVOLUTIONARY**

FREE CDTV STARTER PACK!!!

WHEN YOU CHOOSE YOUR CDTV FROM GORDON HARWOOD, NOT ONLY DO YOU GET OUR LEGENDARY SERVICE, BUT WE GIVE YOU A CDTV STARTER PACK, TO GET YOU EXPLORING YOUR NEW WORLD – STRAIGHTAWAY. THIS INCLUDES A SUPERB SELECTION OF CD DISK TITLES INCLUDING THE WELCOME TUTORIAL & HUTCHINSONS ENCYCLOPAEDIA, PLUS ... FOUR GAMES, SHERLOCK HOLMES & THE HOUND OF THE BASKERVILLES, SIM CITY, CHAOS IN ANDROMEDA, AND THE ACCLAIMED LEMMINGS, WORTH IN TOTAL ALMOST £200.00. IN ADDITION IS THE INFRARED REMOTE CONTROLLER, AND ALL THE HARDWARE NEEDED TO GET YOU CONNECTED.

ALL THIS FOR JUST £499.95

CDTV IS THE SAME SIZE AND STYLE AS MOST VIDEO RECORDERS, SO IT CAN SIT UNOBTRUSIVELY ABOVE OR BELOW YOUR HOME TV AND/OR HI-FI. AND WITH ITS INFRARED REMOTE CONTROLLER, IT CAN BE OPERATED FROM YOUR ARMCHAIR. BUT PERHAPS MOST IMPORTANTLY, IF YOU ARE A COMPUTER ENTHUSIAST, REMEMBER THAT INSIDE EVERY CDTV, IS AN AMIGA, JUST WAITING TO BE USED. SO LATER ON, YOU'LL BE ABLE TO BUY THE OPTIONAL KEYBOARD AND DISK DRIVE, TO GET INTO THE WORLD OF AMIGA COMPUTING. PRINTERS, DIGITISERS, GENLOCKS AND OTHER ACCESSORIES,CAN ALL BE CONNECTED TO GIVE ACCESS TO MANY OTHER EXCITING FACILITIES, AND ALSO MANY OF THE EXISTING SOFTWARE PACKAGES AVAILABLE FOR THE AMIGA COMPUTER. NEVER BEFORE HAS THERE BEEN SO MUCH POTENTIAL FROM ONE NEW STUNNING SYSTEM, PACKED WITH **TODAYS TECHNOLOGY.!**

CALL IN AND SEE US FOR YOUR PERSONAL DEMONSTRATION, OR PHONE US FOR YOUR FREE DETAILED CDTV INFORMATION PACK.

CDTV ACCESSORIES

DUE TO BE RELEASED SOON - Please call us for latest availability.

CD 1220 KEYBOARD	AN 89 KEY QWERTY KEYBOARD	£49.95
CD 1252 MOUSE	INFRARED MOUSE WITH BATTERY SAVER.	£49.95
CD 1200 TRACKBALL	INFRARED TRACKBALL, WITH THE OPTION OF DIRECT CONNECTION TO EXTEND BATTERY LIFE. DUPLICATES FUNCTIONS OF TWO BUTTON MOUSE AND INCLUDES TWO 9 PIN PORTS FOR STANDARD JOYSTICKS	£79.95
CD 1400 CADDY	FOR HOLDING CD WITHIN DRIVE	£9.95
CD 1401 MEMORY CARD	PERSONAL RAM CARD CONTAINING 64K OF MEMORY FOR STORING DATA OR AS A BOOKMARK FACILITY WITHIN CDTV	£79.95
CD 1405 MEMORY CARD	A LARGER PERSONAL RAM CARD CONTAINING 512K OF MEMORY FOR STORING DATA OR AS A BOOKMARK FACILITY WITHIN CDTV	£249.95
CD 1800 FLOPPY DRIVE	RACK MOUNTABLE FLOPPY DRIVE WITH 880K CAPACITY. CASING ALLOWS ROOM FOR ADDITIONAL HARD DRIVES OR MODEMS ETC.	£99.95
CD 1301 GENLOCK	PAL BASED VIDEO INTERFACE CARD FOR SUPERIMPOSING CDTV IMAGES OVER A VIDEO SIGNAL PROVIDED BY ANY STANDARD VIDEO SOURCE	£149.95
CD 1321 VIDEO CARD	PAL BASED VIDEO INTERFACE CARD TO ALLOW CONNECTION TO TV'S /VIDEOS REQUIRING UHF, S-VIDEO OR COMPOSITE INPUTS.	£TBC

Many Amiga Accessories & Peripherals (e.g. Printers, Disk Drives, Software etc.) are compatible with CDTV. Please phone us for compatability information.

HARWOODS AMIGA
PRO-GEN



PROFESSIONAL QUALITY GENLOCK FOR COMPUTER AND VIDEO MIXING, AT A DOWN TO EARTH PRICE!!!

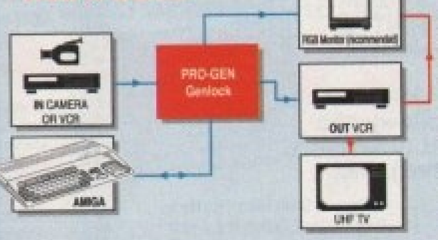
PRO-GEN Amiga Genlock

The Pro-gen AMIGA Genlock allows you to mix your Amiga display with any PAL video signal whether it is from a VCR, Laserdisk player or a Camcorder. In fact any item of video equipment which outputs a PAL composite video signal.Combined with the Amiga computer the Pro-Gen gives you the facilities of a special effects & video titling suite. Take your own films & give them a professional look by OVERLAYING TITLES or by SUPER IMPOSING YOUR OWN GRAPHICS created in packages like Spectracolor or Deluxe Paint. Pro-Gen is supplied with Oxxi's Spectra-color paint & animation package.

FREE

In Spectracolor every drawing tool and animation control is at your finger tips - over 50 tools in the fast menu Toolkit, plus point and click access to all 4096 colours, with independent right and left mouse button colours & modes. Add automatic animation generation easy mouse controls for all functions, and the ability to paint with multi-page animated brushes, and you've got a powerful tool for artistic expression. With animation controls this easy it's simple to put your ideas into motion. Forget co-ordinate systems and reference numbers just move objects with the mouse in this intuitive and friendly graphical environment. Spectracolor supports both ANIM & IFF file formats, and all the video modes of the Amiga, including HAM! (Spectracolor requires min. 1Mb. memory)

How it works:



STOP PRESS

PRO-GEN.. NOW INCLUDES A VERY VERSATILE MULTI COMPONENT VIDEO TO GENLOCK CONNECTING CABLE KIT. THIS ALLOWS PRO-GEN TO BE USED STRAIGHTAWAY WITH MOST POPULAR VIDEO EQUIPMENT, WITHOUT THE NEED TO HUNT DOWN THE CORRECT CONNECTING CABLES. THIS KIT CAN ALSO BE USED TO CONNECT IN OTHER WAYS... eg. VCR TO VCR etc.
A KIT TO START YOU OFF RIGHT FROM THE MOMENT YOU OPEN THE BOX!!

PRO-GEN & Spectracolor ONLY £129.95

Mode Switch-box for Genlocks

Features Include
- Compatible With The Pro-Gen And Rendale 8802
- Supplied With Genlock Extender Cable Worth £9.95
- Switch-box Switches Between Foreground, Background, Video And Computer Modes.

£29.95

FREE... Fully Tailored Dust Cover with all Dot Matrix Printers

PRINTERS

NEW LOWER PRICES!!!

All printers in our range include the following standard features...

☆ Standard Centronics parallel port unless otherwise stated for direct connection to Amiga, PC's, ST etc. and come with a:

☆ FREE CONNECTOR LEAD & A FREE TAILORED DUST COVER!



When you are comparing our prices to others make sure that the same essential items are included eg. Printer Lead, Dust Cover, Postage and VAT etc.

CITIZEN 120D+ 9 PIN MONO - Up to 120/25 cps — £149.95
- Very reliable low cost printer with interchangable interfaces for Centronics/RS232/serial type (C64 etc.)
- Full 2 Year manufacturers warranty

NEW FASTER STAR LC20 9 PIN MONO - Up to 150/38 cps — £159.95
Replacement for our most popular Mono Dot-Matrix at a super low price
- Multiple font options easily accessible from front panel
- Excellent paper handling facilities
- Simultaneous, continuous and single sheet stationery
- 240 x 240 dpi Graphics

CITIZEN 124D 24 PIN MONO - 120/40 cps — £199.95
- 360 dpi - 24 Pin MONO with 3 Fonts
- 8K Buffer - Expandable to 32K
- 3 Fonts, Superb letter quality
- Full 2 Year Warranty
- Feed for labels & multi-part stationery
- Complete paper parking facilities.

STAR LC 24/10 24 PIN MONO - 150/50 cps — £214.95
24 Pin version of the Star LC Series with
- Exceptional letter print quality
- 360 x 360 dpi Graphics
- Additional font cartridges available
- 8 resident fonts

STAR LC200 9 PIN COLOUR PRINTER - 185/40 cps — £209.95
This is the one in our packs!
- 80 Column Dot Matrix
- 240 dpi - 9 Pin COLOUR
- 16K Buffer, 8 Resident Fonts
- Push/pull tractor & rear/bottom feeds
- Reverse paper feeds
- Micro paper feed, Max. paper width 11.7"
- Supplied with colour & mono ribbons
- Paper park with auto single sheet loading
- Programmable from front panel.
- 12 month warranty

CITIZEN SWIFT 9 PIN COLOUR - 160/40cps — £219.95
New super high spec 9Pin colour printer
- 8K Buffer 4 Fonts
- Push and pull tractor built-in
- Feed for labels/multi part stationery
- 240 x 240 dpi Colour Graphics
- Best text quality in our 9Pin range
- 2 Year Citizen warranty

STAR LC24/200 24 PIN MONO - 220/55 cps — £249.95
New Star 24 pin that means business!
- 80 Column Dot Matrix
- 360 dpi - 24 Pin MONO
- 7K Buffer expandable to 39K
- 10 Resident Fonts
- Front Panel Pitch Selection
- Push/pull tractor & rear/bottom feeds
- Reverse paper feed
- Paper park with auto single sheet loading
- Micro paper feed, Max. paper width 11.7"
- Supplied with mono ribbon
- Faster than the old LC24-10
- Extra font cartridges available
- Program from front panel, No DIP switches
- 12 month warranty

STAR LC24/200 24 PIN COLOUR - 220/55 cps — £299.95
Colour version of the LC24-200 Mono but with expandable 30K Buffer.

NEW 24 Pin CITIZEN 224 COLOUR - 160/53 cps — £259.95
Brand New, lowest cost colour 24 Pin printer, anywhere!
- 80 Column Dot Matrix with 4 Fonts
- 360 dpi - 24 Pin COLOUR
- 8K Buffer expandable to 32K
- Easy to use front panel controls
- Push & pull tractor feeds
- Complete paper parking facilities.
- Supplied with mono & colour ribbons
- Full 2 Year Citizen Warranty

NEW 24 Pin CITIZEN SWIFT 24E COLOUR - 180/60 cps — £319.95
Brand New, superb specification colour 24 Pin printer.
- 80 Column Dot Matrix with 7 Fonts
- 360 dpi - 24 Pin COLOUR
- 8K Buffer expandable to 32K
- Easy to use LCD panel controls
- Push/pull & bottom tractor feeds
- Complete paper parking facilities.
- Supplied with mono & colour ribbons
- Full 2 Year Citizen Warranty

CITIZEN SWIFT 24 PIN COLOUR - 160/50 cps — Phone for very special prices!
The ever popular "European Printer of the Year 1990", fully featured 24 Pin colour printer which of course comes with Citizens 2 Year Warranty.

NEW FASTER STAR XB 24 PIN COLOUR RANGE XB24-200 & XB24-250 - 275/80 cps — £399.95 24-200 Colour — Wide Carriage £499.95 24-250 Colour
These NEW top of the range Stars replace the XB24/10 & XB24/15, & offer the best possible quality dot matrix printing
- Exceptional print quality
- 4 x 48Pin super letter quality fonts
- 14 x 24Pin near letter quality fonts
- Buffer: 29K(XB24/200) & 76K (XB 24/250)
- 360 x 360 dpi Colour Graphics
- 12mths on-site warranty (UK Mainland)

HEWLETT PACKARD PAINTJET COLOUR A4 INKJET — £899.95
Our best quality full colour printer at a realistic price
- Parallel/Centronics or Serial RS232 I/F (specify with order, MAC option available)
- For presentation graphics/DTP, CAD and technical/scientific applications
- A full page of colour graphics in 4 minutes (typical)
- Non impact printing, virtually silent, 43dba
- Will print transparencies
- 12 Months on-site warranty (UK Mainland)

STAR LASERPRINTER 4 - 4ppm MONO LASER — New! £749.95
A4 Laser Printer, will connect to PC, Amiga, Atari ST etc.
- 300 DPI, 1Mb. Upgradable to 5Mb.
- Emulations inc: HP Series II, Epson EX800, IBM Proprinter & Diablo 630
- Serial & Parallel Interfaces
- 12month on site warranty (UK Mainland)
- Every desktop publishers dream

STARSCRIPT - 4ppm POSTSCRIPT COMPATIBLE LASER — New! £1099.95
A4 Laser Printer, will connect to PC, Amiga, Atari ST & Apple Macintosh
- As the LASERPRINTER 4 but with Starscript and 2Mb Memory, 49 Fonts and Appletalk.

SEE OUR LIST OF ACCESSORIES FOR BOTH STAR AND CITIZEN PRINTERS, ALL AT COMPETITIVE PRICES!

All the characters Per Second speeds quoted above are Draft/LQ at 10cpi

PRINTER ACCESSORIES

CITIZEN PRINTER ACCESSORIES:

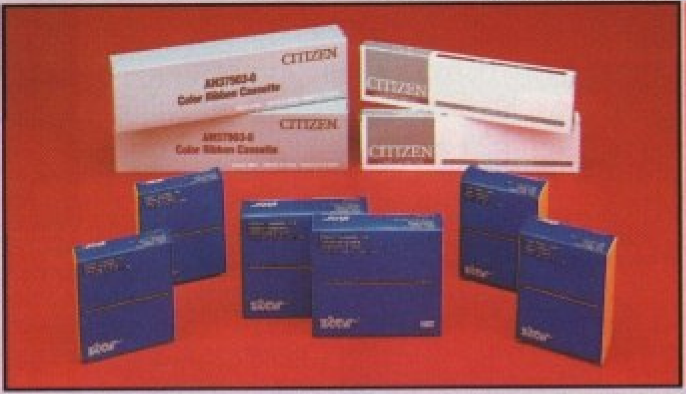
Citizen 120D+ Sheet Feeder	£69.95
Citizen 120D+ Parallel Interface	£49.95
Citizen 120D+ CBM C64 Serial Interface	£49.95
Citizen 124D 32K Buffer	£13.95
Citizen 124D Semi-Auto SheetFeeder	£39.95
Citizen 124D Automatic Sheet Feeder	£79.95
Citizen 124D Printer Stand	£24.95
Citizen Swift 9 Semi-Auto SheetFeeder	£39.95
Citizen Swift 9 Automatic Sheet Feeder	£79.95
Citizen Swift 9 Printer Stand	£24.95
Citizen Swift 9X Printer Stand	£34.95
Citizen Swift 9X Automatic Sheet Feeder	£139.95
Citizen Swift 24 32K Printer Buffer	£13.95
Citizen Swift 24 Semi-Auto Sheet Feeder	£39.95
Citizen Swift 24 Automatic Sheet Feeder	£79.95
Citizen Swift 24 Printer Stand	£24.95
Citizen Swift 24X Auto Sheet Feeder	£139.95
Citizen Swift 24X Printer Stand	£34.95

HEWLETT PACKARD PAINTJET PRINTER ACCESSORIES:

Hewlett Packard PaintJet	
Black Ink cartridge	£25.95
Colour Ink Cartridge	£31.49
Single Sheet Printer Paper	£17.95
Z-Fold Printer Paper	£15.95
Transparency Paper: Pack of 50 Sheets	£52.95

STAR PRINTER ACCESSORIES:

Star LC-20 Mono Printer	
Automatic SheetFeeder	£74.95
Star LC24-10 Mono Printer	
32K Buffer £67.95	£67.95
Automatic SheetFeeder	£74.95
Star LC-200 Colour Printer	
Automatic SheetFeeder	£74.95
Star LC 24-200 Mono Printer	
32K Printer Buffer	£34.95
Automatic SheetFeeder	£74.95
Star LC 24-200 Colour Printer	
32K Printer Buffer	£34.95
Automatic SheetFeeder	£34.95
Star XB 24-200 Colour Printer	
Pull Tractor	£34.95
Font Cartridges - Styles To Be Announced	£29.95
128K Centronics Printer Buffer	£89.95
Automatic SheetFeeder	£114.95
Dual Bin SheetFeeder	£429.95
Star XB 24-250 Colour Printer	
Pull Tractor	£34.95
Font Cartridges - Styles To Be Announced	£29.95
128K Centronics Printer Buffer	£89.95
Automatic SheetFeeder	£174.95
Dual Bin SheetFeeder	£469.95

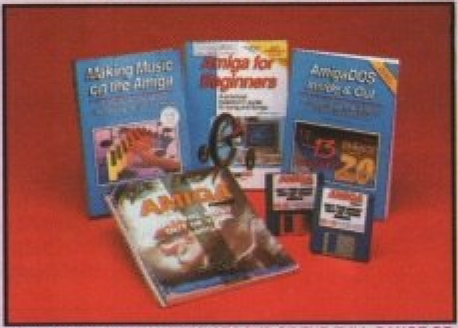


GENUINE CITIZEN & STAR REPLACEMENT PRINTER RIBBONS

PRINTER	PRINTER TYPE	BLACK RIBBON	BLACK RIBBON 'SIX PACK'	COLOUR RIBBON	COLOUR RIBBON 'SIX PACK'
CITIZEN 120D+	BLACK ONLY	£4.95	£24.95	N/A	N/A
CITIZEN 124	BLACK ONLY	£4.95	£24.95	N/A	N/A
CITIZEN SWIFT 9	BLACK/COLOUR	£4.95	£24.95	£16.95	£99.95
SWIFT 24/24E/224	BLACK/COLOUR	£4.95	£24.95	£16.95	£99.95
STAR LC10/20	BLACK/COLOUR	£4.95	£24.95	£6.90	£36.50
STAR LC200	BLACK/COLOUR	£6.95 ZX9	£36.95 ZX9	£12.95 ZX9CL	£69.95 ZX9CL
STAR LC24/200	BLACK/COLOUR	£8.95 Z24	£49.95 Z24	£14.95 X24CL	£74.95 X24CL
STAR XB RANGE	BLACK/COLOUR	£8.95 Z24	£49.95 Z24	£14.95 X24CL	£74.95 X24CL

BOOK SHOP

FOR BEGINNERS & EXPERTS ALIKE



WE ALWAYS CARRY LARGE STOCKS OF THE FULL RANGE OF ABACUS & OTHER BOOKS...Phone us for details!

AMIGA FOR BEGINNERS - VOL. 1 ABACUS BOOKS, £12.95
From unpacking your Amiga to creating your own icons, includes first use of basic and extras disk.

AMIGA BASIC INSIDE AND OUT - VOL 2 ABACUS BOOKS, £18.95
Definitive step by step guide to programming Amiga's in basic.

AMIGA MACHINE LANGUAGE - VOL 4 ABACUS BOOKS, £14.95
Practical guide to learning 68000 assembler language.

AMIGA DOS INSIDE AND OUT - VOL 8 ABACUS BOOKS, £18.45
Guide to Amiga DOS & CLI. NEW Edition inc. DOS v 2.0

AMIGA HARDWARE REFERENCE MANUAL-Addison Wesley, £21.95
Written by technical experts at Commodore Amiga Inc, USA... People who designed your Amiga. Hardware level machine code programming at advanced level.

AMIGA, BEST OF TRICKS & TIPS Vol. 17, £32.95
A complete set of tricks and tips that enable you to do MORE with your Amiga and as simply as possible.

*Credit terms are available (subject to status) for most products: see our ordering panel at the end of this advert for full details

MONITORS & MONITOR TV's

Harwoods stock a complete range of both Monitors & Monitor TV's to give you your perfect solution to the type of display to buy.



PHILIPS CM8833/II
Stereo High Resolution Colour Monitor

NOW WITH FREE...F19 STEALTH FIGHTER!!!

The ever popular 14-inch Philips CM 8833 MkII, is the most versatile multipurpose colour monitor available. Its versatility means you not only get excellent colour graphics & text performance with a wide range of personal computers, but when connected to a VCR or optional tuner, you get an amazing 600 pixel TV picture. It's this 600 pixel resolution, that makes the 8833 essential for the serious user who wants to use his computer for text based applications. With the 8833 MkII, Harwoods give you the complete set up, to get you going straight away... Monitor, RGB picture and Stereo Audio Cables, Tailored dust cover, a full 12 Months on site service warranty, and inclusive of a FREE Superb F19 Stealth Fighter Game!!!

☆RGB/AD, TTL, Composite. Video & stereo audio inputs Can be used as a TV with VCR or Tuner Also as a Video Camera display monitor Retractable stand ☆Twin Stereo Speakers Headphone Jack Socket FREElead for your computer FREE 12 Month on site service warranty.

THE MOST VERSATILE STEREO COLOUR MONITOR AVAILABLE

£249.95

CBM 1084S STEREO COLOUR MONITOR. Commodore's Own Stereo High Resolution Colour Monitor with... RGB/AI/TTL, Composite. Video/Audio Inputs Can be used as TV with VCR or tuner. Twin Speakers for stereo output Supplied with cables for A500, CGA PC,\C16-64-128.

£269.95

PHILIPS TV TUNER. ALLOWS ANY MONITOR WITH COMPOSITE VIDEO & AUDIO INPUTS TO BE USED AS A TELEVISION. SUPPLIED COMPLETE WITH AERIAL FOR USE INDOORS ALSO HAS STD EXTERNAL AERIAL SOCKET AND COMPATIBLE WITH MOST MONITORS INC. PHILIPS CM8833 MK I & II, CBM 1081/4, & 1900/1/2.

£79.95

It's important to remember that most TV Monitors, are still first and foremost televisions, meaning that their average 400 pixel tube display 50% lower resolution than a monitor) cannot be guaranteed to display 80 column text clearly without risking eye strain. If choosing a Television Monitor ensure it has the latest 2000 character tube capability, meaning it can handle the Amigas' 80 characters, by 25 line output clearly.

NEW!!! PHILIPS 15" TELETEXT REMOTE CONTROL 40 CHANNEL MONITOR TV. BRAND NEW SUPERB DEFINITION PHILIPS MONITOR TV. IDEAL FOR AMIGA OR CDTV USERS, GIVING FOR THE FIRST TIME TRUE MONITOR QUALITY FROM A FULL FEATURE TELETEXT TV AT AN AFFORDABLE PRICE!!!. JUST LOOK AT THE FEATURES... Direct Scart Connector for Amiga, CDTV, VCR OR SATELLITE RECEIVER RGB/AD, Composite Video & audio inputs FULL TELETEXT FACILITIES (FOR THIS FACILITY EXTERNAL AERIAL SHOULD BE USED) Headphone Jack Socket FULL TWO YEAR GUARANTEE ☆2000 CHARACTER HIGH DEFINITION FST TUBE SUPPLIED WITH LOOP AERIAL REMOTE CONTROL ☆FREE lead for YOUR computer

IF YOU WOULD LIKE THE MONITOR TV IN OUR PACKS 2, 3, POWERPRO OR WITH ONE OF OUR PERIPHERAL PACKS TO REPLACE THE 8833, PLEASE SIMPLY ADD £20.00 AND STATE YOUR PREFERENCE WHEN ORDERING.

ONLY... **£279.95**

AMIGA ACCESSORIES

KCS POWERBOARD IBM PC EMULATOR ☆Hercules, CGA & Monochrome Video Support, Supports Both 3.5 Inch & 5.25 Inch Diskettes, Fits Into A501 RAM Slot, 8088 XT Processor, Clock/Calendar Included, Acts As 512K RAM Exp. When In Amiga Mode, Includes MS-DOS 4.01, Shell & GW-BASIC, Supports A590 Hard Drive, Mouse Driver Software Included. **£219.95**

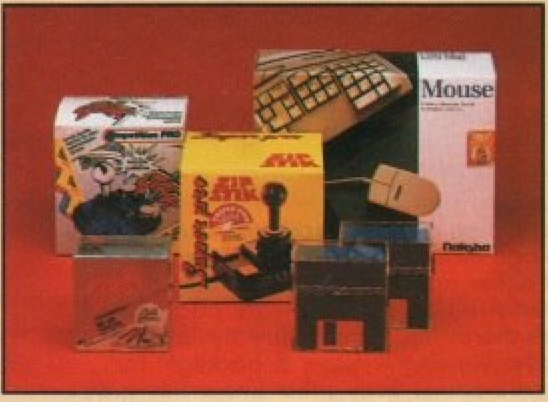
MEMORY EXPANSIONS

HARWOODS PRO-RAMPACK **£29.95**
512K Memory Expansion for Amiga A500 series that simply plugs in! Fully compatible, On/Off switch and real time battery backed clock.

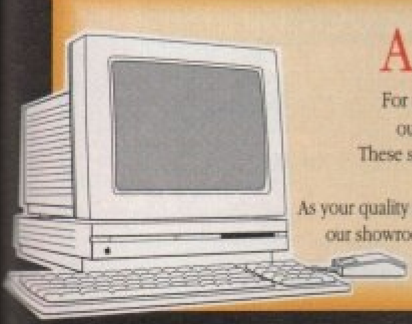
SUPRARAM RX 500 (512K to 8Mb. RAM Expansion)
The RAM expansion giving massive memory WITHOUT dismantling your Amiga, thus avoiding the possibility of invalidating your warranty. Easily connects to sidecar with bus 'pass-through' for HD's etc.

512K RAM Version	£129.95	**4Mb. RAM Version**	£329.95
2Mb. RAM Version	£199.95	**8Mb. RAM Version**	£549.95

NAKSHA MICROSWITCHED MOUSE £24.95
GOLDEN IMAGE OPTICAL MOUSE £32.95
COMPETITION PRO JOYSTICK 5000 Black £7.95
ZIPSTICK JOYSTICK £12.95
COMPETITION PRO STAR JOYSTICK £14.95
The ONLY joystick to obtain a 100% rating from a magazine review!
3.5" DISK HEAD CLEANER £2.99



BLANK DISKS with labels
10 Genuine Commodore 3.5" branded **Only £9.95**
10 Unbranded with library case 3.5" certified **Only £7.95**
200 Unbranded 3.5" certified **Only £72.50**



Apple™ in Alfreton...

For the professional user, Gordon Harwood provides the outstanding Apple™ Macintosh™ range of computers.
These superb systems are available surprisingly competitive prices ....starting at under £1000
As your quality assured Apple™ Authorised Dealer, systems are available through our showrooms only. Please visit us for your personal introduction to this exceptional range of friendly yet powerful graphical computers.

Gordon Harwood Computers
Authorised Dealer

Easy Ordering

Before you choose from whom to purchase, please phone us. We are always happy to discuss your requirements, and answer any queries you may have...

ORDER BY PHONE: Phone our Order Hotline with your Access, Visa, Mastercard or Lombard Creditcharge Card quoting number & expiry date (most Dixons, Currys, NASCR and other 'store' cards are Lombard Creditcharge and are accepted by us).

ORDER BY POST: Make cheques, bankers building society drafts or postal orders payable to GORDON HARWOOD COMPUTERS. (Personal/business cheques take 7days to clear from day of receipt whereupon your order will be despatched). Please send Name, Address, and most importantly if possible, a Daytime Telephone Number along with your order requirements. Please check you are ordering from one of our latest advertisements before posting (phone if you require confirmation). Please remember that for example many September publications appear during August, therefore prices you see may have changed (either up or down).

FREE POSTAL DELIVERY: FREE within 14 working days, UK Mainland only, OR: COURIER SERVICE. Add £5.95 per major item for next working day delivery, UK Mainland most regions.

EXPORT ORDERS: Most items are available at TAX FREE PRICES to non UK residents when visiting /export shipment. Please contact us for ordering information.

REMEMBER AFTER YOU'VE BOUGHT FROM HARWOODS, WE'LL STILL BE HERE...

TECHNICAL SUPPORT: You will be given our Exclusive Technical Support Phone Number to call should you require any help or advice on any aspect of the system you have purchased.
12 MONTH WARRANTY: Items proving faulty within 30 days of purchase are replaced with NEW UNITS unless otherwise stated. For the whole guarantee period, warranty service will be completely FREE OF CHARGE.
COLLECTION FACILITY: Any computer, monitor or printer requiring warranty service can be collected from your home FREE OF CHARGE during the guarantee period (UK Mainland only) and a FAST turnaround is GUARANTEED by our OWN ENGINEERS!
FULL TESTING PROCEDURE: All computers are tested prior to despatch, and all items are supplied with mains plug and leads as required - just connect up and use straight away.

REMEMBER WE'RE NOT JUST ANOTHER MAIL ORDER COMPANY...

All listed prices are what YOU PAY, and there are NO HIDDEN EXTRAS. VAT and postage are included, and prices are correct at time of going to press (Pack details may vary from time to time). Offers are subject to availability and to being the latest advertised packs and prices. Our offers are NOT supplied on a trial basis. E&OE.

FINANCE FACILITIES... **tailored to suit your needs. Written details on request. Gordon Harwood Computers offer facilities to purchase using our budget account scheme. APR 36.8% (Variable). Available to most adults of eighteen years or over, subject to status. Simply phone or write and we will send you written details along with an application form. Applications, required in advance, available to full time U.K. mainland residents and overseas British forces personnel. Showroom visitors, please ask for details of our in-store "Instant Account". Written quotations on request.**
If you are already the holder of a Lombard Credit Charge Card you can use this to purchase from us (subject to your personal card limit)

VISIT OUR SPACIOUS SHOWROOM:
Please pay us a visit where our full range of advertised products, at the SAME COMPETITIVE PRICES, & MORE, is on sale. 'ALL UNDER ONE ROOF', in pleasant surroundings at our purpose built showroom *(See note below map)*. There's plenty of FREE parking close by.

If you're thinking about presents why not buy a Harwoods Gift Voucher (all values available).

OPENING TIMES: 9.00 until 5.00 Monday to Saturday
9.00 until 1.00 Wednesday. Closed on Sundays



Whilst we always have specialised systems on permanent display, should you require a 'special' specific product demonstration we will be happy to oblige. Just phone us in advance to make the necessary arrangements.

GORDON HARWOOD HARWOOD HARWOOD Computers

GORDON HARWOOD COMPUTERS
DEPARTMENT AMC /G2, NEW STREET,
ALFRETON, DERBYSHIRE. DE5 7BP
TEL: 0773 836781 FAX: 0773 831040

GASTEINER *Technologies*

Tel: +44 081-365 1151
Fax: +44 081-885 1953

Trade and Educational Orders Welcome

Credit Cards Welcome | bsc | Personal Callers Welcome

Outstanding *NEW* products from Gasteiner Technologies

MEMORY MASTER



A half-length FastRAMN expansion with 4 MBIT technology upgradeable 2, 4, 6 & 8Mb. No additional Wait State in the Amiga 1500/2000 16 But-Bus-Technology. Includes RAMtest program and detailed manual. *From* **£139**

PRO-MONITORS

NEC 3D	£499
QUADRAM 1480	£399
PHILIPS 8833 MK II	£229

ALF 3



High speed excellent performance. Hard disk delivered ready for use after plugging into a free A2000-Slot. Optional data trasfer independent from processor & uses fully the Amiga-busband-width (16 Bit). **£149**

OKTAGON 508



A really intelligent SCSI controller for the Amiga 500.
* Autoboot by FFS
* Automatic reading from SCSI devices
* Supports up to 7 SCSI devices
* Multi tasking capable
* Login and password security
* Upgradeable up to 8Mb

ALL THIS FOR ONLY **£179**

THE TRACK BALL



Switchable between Atari/Amiga with the third button 'Click & Hold' feature this must be the best value trackball at only

£34.95 **£24.95**

ALFA DATA MOUSE



Best replacement mouse which includes a mouse holder & cutting pad.

For Only **£19.95**

UK's LEADING TOP SELLING SCANNER MK II



Outstanding quality, excellent value - this package includes a 100-400dpi scanner with dither options, plus the amazingly powerful TOUCH-UP software package which drives the scanner directly. Scanner includes viewing window & backlight for accurate scans. Scan either line-art or grey images up to 400dpi. **£139.00 plus VAT**

GOLDEN IMAGE RC 2000 = 2Mb-8Mb

Populated for A1500 - A2000

2Mb	£99
4Mb	£189
6Mb	£POA
8Mb	£POA

GOLDEN IMAGE OPTICAL MOUSE



Amazing accuracy and reliability with the first optical mouse for the Amiga + ST

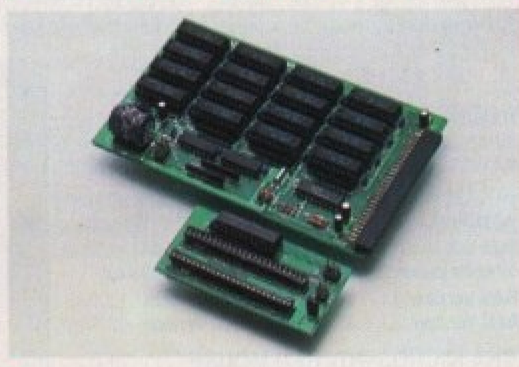
ALFA DATA TRACKBALL



Alfa Data Trackball. Excellent high performance trackball for Amiga and Atari ST. Operates from mouse or joystick port. Top quality construction and opto-mechanical design.

only for **£29.95**

2Mb RAM CARD



* Fully populated board
* Plugs into trap door expansion
* and connects to gary chip. Populated RAM board

£34.95

Ram card $^1/_2$ Mb	£59
Ram card 2.5Mb	£129

512K RAM/CLOCK CARD

* 100% A500 compatible
* Battery Back-up Read time Clock on Board
* Support ON/OFF Switch to enable/disable expanded RAM.

Only **£29.95**

GASTEINER Unit 12 a Millmead Business Centre, Millmead Road, London N17 9QU

Tel: 081-365 1151 Fax: 081-885 1953 Opening hours Mon-Sat (9.30am-5.30pm)

A vision of the past?

Stevie Kennedy tries out Visionary, the latest adventure writing package

Snarl though some arcade freaks may at the phrase "adventure game", the genre has refused to die. Its demise has been predicted or announced a dozen times in the last decade, and each time the harbingers of doom have rung the adventure game's death knoll just a bit too soon.

Since The Quill wowed Spectrum-owning adventure fans in 1984, there have been many packages released whose purpose is to aid in the coding of text-only or text-graphics adventure games.

Until the release of Visionary, Heyley Software's HatRack 2 was the only example of this kind of package available for the Amiga. Now, however, Aegis have come up with what is easily the most powerful adventure creation language in the 16-bit market place.

Graphics bonanza

Visionary is intended as a complete mini-language rather than a code generator. It can therefore be used to create anything from a simple text adventure to a totally mouse-based Dungeon Master-style game complete with animation and sound.

The downside is that the Visionary language has to be learned before users can produce their own games, but this is offset by the fact that the language is small, friendly, and as much like plain English as possible. You may not be able to boot up and go with this package, but the excellent manual with its straightforward tutorials and sample game makes for a smooth and glitch-free learning curve.

The manual takes beginners through the game creation process by using a sample game, entire listings for which are located at the back of the instructions. Each of Visionary's code sections are introduced and their basic structures explained before the more advanced features are reached in later chapters.

In this way, the learner can proceed from simple room descriptions through objects and their manipulation, to the adding of graphics, animation and sound. In all sections, however, the Visionary language remains easy to grasp and no more taxing than Basic or Amos.

In some ways, particularly the manipulation of graphics and the mouse, Visionary is similar to Amos in that it has powerful commands for creating "click zones" and for detecting when a mouse button is pressed within a zone. The user can utilise these features to create graphics adventures including screen graphics with hot spots and active elements.

This means, in short, that a finished game might allow the player to click on an icon to examine something, then click on the object in the screen picture to receive a description.

Hot demo

The demonstration game "I was a cannibal for the FBI", which comes with the Visionary Programmer's Handbook (an optional extra), includes objects which may be clicked on and dragged to the player's inventory area, hot spots, mouse control of movement, and many other features which the user would otherwise have to code long and hard to achieve in C or Assembler.

The experienced Amos programmer could produce similar results with almost the same degree of ease, but as Visionary is designed specifically for adventure games, it is both easier to learn and more adept at creating the results required by the adventure fan.

Possibly the most useful and powerful feature in Visionary, however, is its flexible implementation of attributes. Each room can have up to 32 attributes, as can each object in the game. These can be designed by the programmer or can be standard Visionary attributes. The Default attribute is the most commonly used, as it sets out the possible exits from a room, closely followed by Visited, which automatically tests to see if a room has been entered, and the self-explanatory Dark attribute.

The values of these attributes can be tested at any point in the game to determine how Visionary will react to a player's input, and they come into their own when the user designs attributes of his or her own. With a bit of thought, you could have a Weight attribute for each object, or an Airsupply attribute for every room in a space station-type game, or even a Friendly attribute when designing non-player characters (NPCs).

With a maximum of 65,000 each of objects, rooms, subroutines, or possible actions, and a whopping upper limit of 128,000 variables, the programmer has plenty of scope to play around. Add to this the 4.3 billion characters of text Visionary can handle – though I challenge you and your hard drive to make use of them – and you have a system capable of keeping up with the most prolific of creators.

All Visionary games start their life as Ascii text files entered using a wordprocessor or text editor. Aegis supply the Visionary Interactive Editor to make creating graphics and generating code as easy as possible, but I didn't have a copy and relied instead on Cygnus Ed to create text files.

Once you've typed in your code, you must compile it using the Visionary compiler VCOMP. This works extremely fast, and generates code ready to be tested with the DBUG utility. DBUG is a very friendly piece of software, and lies at the heart of every Visionary creation. It makes testing and debugging almost a pleasure as it enables the users to change attributes, jump from location to location, change startup parameters, and generally muck about with the code to his or her heart's content.

If you generate a cross-referenced error file when compiling, it is relatively easy to find and correct errors, track down rogue variables, and sort out surly subroutines. Once the bugs are removed, the code is then ready to be linked, using the VLINK linker, at which point it becomes a standalone game you can freely distribute or sell.

Completed standalone games are at least 200K in size, as this is the amount of code tacked on by the linker to enable them to run. However, as this leaves 500K for your source code before a floppy disk's limits are reached, there is enough room for even the largest of games.

Huge graphics-only affairs will sometimes cause storage problems, and may have to be crunched, but until you're prepared to learn enough assembler to code a game from scratch, you'll just have to accept the odd limitation.

Conclusion

Whether your tastes are of the text-only variety, or your secret dream is to create a Dungeon Master variant with a Terry Pratchett theme, complete with animated Rincewind, you'll find that Visionary has the power to develop the game you've been hiding for lack of programming skills.

All those potential programmers who've woken from a comatose slumber over a beginners' guide to C or assembler are recommended to give Visionary a look. It's well worth it.



Visionary is capable of producing games in the style of graphics-only programs such as Bloodwych

Visionary is a product of Oxxi-Aegis Inc., PO Box 90309, Long Beach, CA 90809
Phone: 0101 213 427 1227
Price: No UK price as yet – phone Aegis for details
Release: Imminent

STRiCTLY pd

THE FINEST PUBLIC DOMAIN SOFTWARE

Dept AC, 11 YORK PLACE, NR BRANDON HILL, HOTWELLS, BRISTOL BS1 5UT

Pick up your Crimbo and New Year goodies at Bargain Basement Prices

demos

D434 Black Adder II Samples
D422 Blind Date Demo
D319 Bloodsport
D443 Doctor Who Slideshow
D317 Evil Dead – Sight and Sound (2 Disks)
D410 Farts & Belches
D329 Girls Girls Girls
D314 Girls on Film X
D416 Gorgeous Models 2
D442 Gulf War Slides
D224 Horror Demo
D320 Horror Show X
D448 Mr Potato Head In The Chips Are Up
D316 Maria Whittaker Anim
D129 Maria Whittaker Slideshow
D313 Paradise Picture Show X
D436 PD Animations
D413 Perverse Slideshow
D415 Pretty Girls
D435 Rambo Slides
D432 Rowan Atkinson
D303 Saucy Postcards X
D328 Showering Girls X
D269 Simpsons Slideshow
D089 Star Trek Animation
D121 Star Trek Animation
D419 Star Trek Mega Demo (2 Disks-2 Drives (1Mb)
D112 Stealthy 2
D321 Strip Slot Machine X
D444 Terminator II Slideshow
D214 Twin Peaks
D445 Vic Reeves
D451 Virtual Worlds
D423 Walker v Amy Anim (1Mb)
D414 Warzone/Sickness Simulator (1Mb

utilities

U285 Agatron Utilities
U072 Agene (1 Meg) Family Tree
U063 Amigazer
U071 Biorythms (1 Meg)
U227 Bootbench
U054 Business Card-Maker
U079 CAD V
U069 Cartoon Brushes
U073 C/Light
U289 Communications Disk
U049 Countach Art Collection (3 disks)
U292 Database Master
U231 Digitised sample player
U056 DTP clip art (2 disks)
U042 Education 1: German
U089 Flexibase v2.0
U241 Fonts/Logos
U218 Fractal Scape
U051 Future Composer
U264 Ghost Writer
U215 Graphic Utils (2 disks)
U006 Home Business Pack: W/Processor, Spreadsheet, Database (3 disks)
U233 Icons
U014 Intromaker
U096 Label Printer
U230 Mac clip art
U017 Mandel mountains
U066 Mandelbrot Explorer
U222 Mandelbrot Generator
U050 Messy Dos
U214 Mobed v1.0
U216 Noise Player v3.0
U058 North C
U237 Professional DemoMaker
U217 QED text editor
U295 Quickbench
U081 Rabid Rita's utilities
U209 Red Sector DemoMaker
U025 Sid v1.6
U070 Slideshow Maker
U288 Spanish Tutor
U221 Spectrapaint
U084 Speech Toy
U038 Text Plus
U265 The Ultimate Disk Creator
U094 Uedit
U284 Viz Clipart
U082 Voices
U266 Wordwright
U061 Workbench Fun
U297 Sound Workshop
U299 Scene Generator
U300 Vector Designer
U302 Midi Collection
U303 Messysid
U304 Programming Languages
U305 Word Frenzy
U306 Golf Recorder
U308 AMOS Paint
U310 Paint Spool
U281 Med v3.1
U312 Mandelbrots
U313 Aquarium
U286 House Sampler 2
U287 House Sampler 3
U296 Hamlab

music

M061 808 State remixes
M308 Alice Cooper/Star Trek
M105 Another day in paradise
M092 Betty Boo
M200 Bomb the Bass
M149 Don't miss the party line
M306 Erasure Mix
M203 Eurythmics
M015 Genesis
M096 Groove Is In The Heart
M301 Guns & Roses
M098 Hear the Drummer
M310 Joe Le Taxi
M042 Kim Wilde
M100 London Beat
M303 Madonna Rescue Me
M097 Madonna Vogue (4 disks)
M304 Me Hammer Cant touch this
M018 Miami Vice Remix
M302 Money for Nothing
M259 Pet Shop Boys (2 disks)
M307 Poison Sample
M258 Popstar Selection
M091 Queen Flash (2 disks)
M102 Sydney Youngblood
M094 Technotronic
M124 The Power remix (1 Meg)
M031 The Wall
M097 Vogue (4 disks)
M032 Walk this way
M123 What Time is Love
M317 Charley
M318 Utah Saints

75p

STRiCTLY pd — STRiCTLY public domain

(Dept AC) 11 YORK PLACE, NR BRANDON HILL, HOTWELLS, BRISTOL BS1 5UT

☞ Cheques/P.O's payable to STRICTLY PD
☞ Buy 30 or more disks for just 75p each
☞ Over 21 disks ONLY 85p EACH
☞ Take the 11+... only **99p** per disk when you order 11 or more!
☞ For orders of less than 10 disks, pay just £1.25 per disk, plus 70p post and packing (Overseas orders add 25p/disk for Europe; Rest of the World add 50p/disk)
☞ Catalogue disk available only £1

games

G058 2-player Soccer League
G278 Air Ace II
G102 Airwar
G082 Antep (1 Meg)
G073 Autobahn 3000
G205 Back to the Future
G079 Ballrun
G039 Breakout
G077 Cave Runner
G288 Chainsaw Death
G006 Collosus
G008 Eatmine
G069 Escape from Jovi
G051 Frantic Freddie
G012 Gravattack
G206 Killing Game Show
G266 Lady Bug
G307 Leading Larry
G059 Marathon Mine
G057 Marble Slide
G055 Mayhem
G276 Megaball
G017 Megagames (2 disks)
G215 Megagames (4 disks)
G270 Mental Image Gamepack
G040 Monopoly
G019 Pacman
G500 Pool (+)
G305 Popeye Game
G086 Property Market
G065 Quizmaster
G084 Rings of Zon (1 Meg)
G321 Scum Haters
G292 Sealance
G217 Shapes
G060 Snakepit
G220 Star Trek (3 disks, 2 drives 1 meg)
G279 The Simpsons
G041 Trek Trivia
G273 Truckin' On (2 disks)
G064 US Star Trek (2 disks, 1 meg)
G268 Wheel of Fortune
G272 Wizzy's Quest
G314 Wondersoft Games Pack
G322 Wooden Ball
G323 Nethack
G324 Pick Up a Puzzle (2 disks)
G328 Qberty
G329 Cabaret Asteroids
G330 Balloonaly
G331 Demolition Mission
G332 Crossfire
G333 The Next Generation
G335 Ultimate Platform Games
G337 Insiders Club
G339 Games Bonanza (22 games)
G340 Zeus
G341 Napoleonic Wargame
G342 Downhill Challenge
G343 Pom Pom Gunner
G344 Llama Collection
G345 Shoot Em' Up Pack
G347 Super Quiz
G346 Atic Atack

GAMES GALORE VOLS 1-8
MEGA GAMES VOLS 1-6

Order TRANSCRIPT – probably the best licenceware wordprocessor around ONLY £2.00

We now have FRED FISH 1-560

We now have T-BAG 1-58

Send £1.00 now for our superb catalogue. There is a demo of the great new D-Paint IV as well as a game, a CLI help file and reviews of well over 1,000 PD Disks

Daniel Whitehead takes a journey through the scrolly-infested PD jungle to see what he can find

SHAREWARE AND PUBLIC DOMAIN SHOPPER Selection

The Eric Schwartz Collection

George Thompson Services Theme Pack

The big mention this month goes to George Thompson Services down in Hertfordshire. They now offer various "theme" packs of PD software for around a tenner, and one of their latest packs is bound to be of interest to those who like to use their Amigas to show off to their ST-owning friends.

For only £9.99, or £10.99 for non-members, you get a set of five disks comprising nine of the now classic Eric Schwartz animations. You also receive a slide show entitled *The History of Amy*, tracing the life of Schwartz's cartoon creation Amy the Squirrel right back to the turn of the century, and a disk of some highly impressive, and reputedly rather rare, animations by Dennis Sibera.

All the animations run from WorkBench, although a lot of the more impressive Schwartz anims require more than 1 meg. They do take quite a while to install, but once all the frames and sound effects have been made ready the animation will run over and over again until a mouse click allows you to choose another.

The animations typify the Schwartzian sense of humour and fans of his Aerotoons will be pleased to see the return of *Navy Aggressor Training* and *Skydive*, while the other vintage offerings range from a short but sweet Batman spoof to a brilliantly thought out Road Runner tribute.

Of course, the quality of the drawings is excellent, and Schwartz's talent for creating great facial expressions puts him on a par with, ooh, Tony Hart at least. Honestly though, if you've never seen an Aerotoon, then you haven't lived. Every time I've loaded them up, a small crowd gathers to watch and people can be heard murmuring things like "They're very good aren't they?", "Yes, it's just like the telly" and so on.

Despite the slightly higher price than usual, the pack is well worth shelling out for, if only because the animations contained within are fast becoming Amiga legends. Just the thing to while away the cold winter nights with the family, and it's bound to be more entertaining than Russ Abbott's Christmas "bonanza".

Wasteland

N.B.S. PD Disk No. G206



The first fruits of the 3D Construction Kit in the shape of Wasteland

Wasteland is the first game to hit the PD market from the 3D Construction Kit, and quite a nice little effort it is too. The idea is that you are assigned the unenviable task of preventing a nuclear meltdown by exploring the reactor and stabilising the core.

It's a good idea, and it plays pretty well. The author has got to grips with the construction kit, despite its bugs and niggles, and has produced a game that is definitely worthy of a budget release, maybe even full price!

It's actually quite hard, and it may take even the most dedicated adventurer a while to suss things out. So, not one for the novice, but if you've done six impossible things before breakfast, why not round them off by completing Wasteland?

The graphics are a little rough around the edges and they can be quite disorientating at times, but the sense of scale is captured with style, and the sound effects add greatly to the atmosphere. Given the restrictions of the construction kit, this bodes well for the future of PD games after the glut of mediocre SEUCK offerings. Very professional presentation, a massive play area and plenty of puzzles make it fiendishly difficult to fault, as well as to play. As a PD game, this is an absolute bargain. Snap it up.

The Birth of Film

George Thompson Services

If you've ever wanted to know how the motion picture was developed, then this disk is just the thing for you. On the other hand, if you're a DVideo fanatic then this is a shining example of what can be achieved with a bit of effort and an interesting subject.

Taking the form of an interactive tutorial, it takes you through, amazingly enough, the birth of film, and illustrates its points with small animations and text windows containing relevant information. These are accessed by clicking on people's names in the text, or pictures which then burst into action to bring the story to life.

Considering the subject matter, this is a great idea, and as the animations and text are onscreen at the same time, you can see what you're reading about.

This works really well, as you can find out all about the first moving pictures as you watch them. Educational and interesting.

The clear graphics and well written text go nicely together to form a package that wouldn't look out of place on the CDTV. No keyboard entries are required, so I wouldn't be at all surprised if it does find its way to the screens of "the shiny disked one".

Oozing professionalism all over the shop, this little educational proglette will be of great use to anyone studying the media, or indeed anyone who's remotely interested in what films were like before Terminator 2 was even a twinkle in Mr Hollywood's eye. Very impressive.



Everything you wanted to know about Mars, but couldn't be bothered to ask?

➤

Mars

George Thompson Services

Blimey, yet another George Thompson Services disk. They are busy little beavers down in Hertfordshire. Again, this disk is very well presented, with loads of digitised pictures and well thought out text.

It's another educational disk, along the lines of the Birth of Film, but without the interactive aspect. What you get is a slide show of various pictures of the red planet, with relevant features highlighted and text describing just why that red smudge is really the majestic heights of the Olympus Mons.

It's not as exciting or interesting as the Birth of Film disks, and it lacks the interactive element. Whereas in Birth of Films you could explore the program to a certain extent, the Mars disk is very much a spectator affair. All you can do is sit back and watch all the pretty pictures. Some animation would have spiced it up a bit, and some sound perhaps, but as it stands it does tend to get a bit dull.

I suppose if you're a big fan of the planet Mars, then this may be of interest, but it doesn't take advantage of the computer medium, which leaves it fairly redundant.

Mission X

N.B.S. PD Disk No. G208

Yet another Shoot-'Em-Up Construction Kit creation, and this one's actually a sequel! Yes, these SEUCK games are self-multiplying, it would seem. This, for those who want to know, is the sequel to R.A.I.D. (that's Really 'Ard In Design, fact fans) which was reviewed in the November issue, and actually got a lukewarm thumbs up.

Not that the sequel seems to go any further in the quest for originality, settling instead for different backgrounds and enemies.

As far as SEUCK games go, this one is probably the best you're likely to find. The graphics are of a very high quality, although they do look a tad SWIVish, and really wouldn't look out of place in a professional game. The sound's not 'arf bad either, as it happens.

If the game has one major fault it's that, like a lot of SEUCK games, it's just too unapproachable. The collision detection is dubious at times and the trundling speed makes it hard to carry out any great feats of speed and skill. Blind luck seems to be just as much a part of play as joystick dexterity. Unfortunately, we've seen this sort of thing churned out on PD month after month and Mission X is really nothing new. If you haven't already got a SEUCK game, then this is the best so far, but if you've got piles of them exploding from your disk box then this isn't really worth the effort. What a miserable old thing I am.



An amazing new concept in PD games? Er, well, no actually. Mission X from N.B.S.

Catacombs

AmigaNuts Disk No. 1202

As everyone decks the halls and jingles their bells for the festive season, the number of PD games is rocketing. What better way to spend those last few pounds from that mysterious Auntie Angus in Inverness you never knew you had?

Well, you could splash out on this cheapo Gauntlet rip off. Not what you'd call the best PD game in the world, but it's playable enough and is even charming in its own little fluffy way.

You control the traditional furry underpanted, axe-wielding barbarian who must make his way up through different dungeons, for no other reason than that it's what barbarians like to do when they're not barbarianing.

Along the way you can collect keys for doors, treasure for points and kill monsters for the hell of it.

Unfortunately, there isn't really enough to do on each level to make it a really gripping game. If you're very lucky you may meet one or two monsters, and then despatch them with a few swipes from your axe.

As such, this game isn't really seat-of-your-pants adventuring. What it is though, is a fairly competent puzzle game.

Some thought must go into which way to go and how to get to a key, so you can get through a door so you can get to the exit, and so on.

If you look beyond the flickery graphics and the jerky scrolling, it's harmless enough. Don't rush out to get it, but give it a go if the opportunity arises.

Video and Text Viewer

AmigaNuts Disk No. 1199

Another treat for all you video buffs. This handy little program allows you to add rolling credits to your home video masterpieces, so Jeremy Beadle knows exactly who's who when you send him that humorous clip of your mother-in-law falling of a swing.

The program will take text files, and allow them to be edited and generally mucked about with so they look a bit more swanky. You know, nice colours, extra big letters, that sort of thing. Also available to impress friends and family with are a variety of spooky screen wipes so your text can be scrunched and slipped all over the shop, rather than just scrolling up the screen.

The program isn't just restricted to home video use though – it can also be used to add scrolling text files to your Amiga programs, so you can make the README file on your disks a little bit more exciting.

Please note that this program is not PD, and is only available through AmigaNuts. Anyone else who is distributing it is a thieving toerag and deserves what they get. Oh yes indeed.

The whole thing is fairly easy.to get to grips with, and there are a couple of example files to give you some ideas. Add to this a huge manual on the disk that gives you all the commands in great detail and you've got a powerful package. Well worth making the effort to get used to.

Graphics Construction Kit

17 Bit Disk No.1417

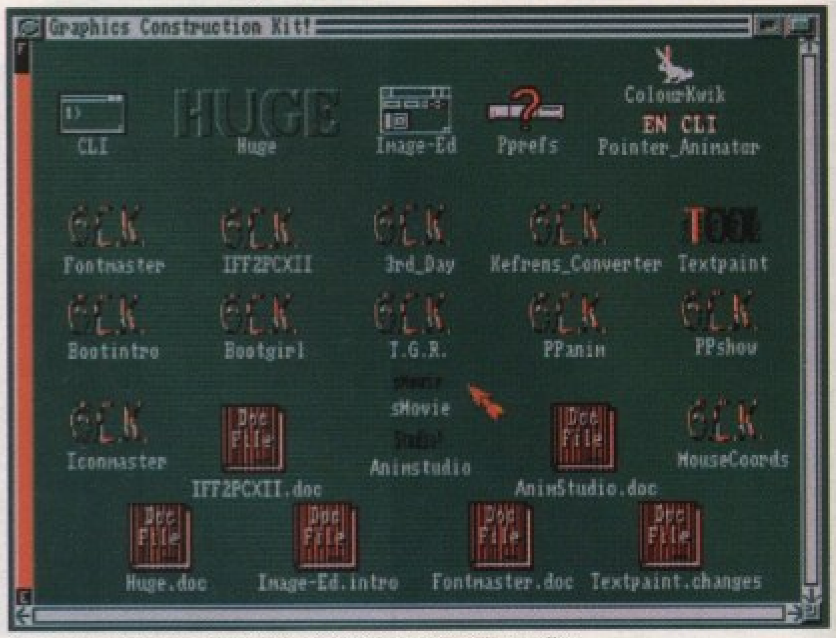
For those who want to dabble in every aspect of graphics work on the Amiga, this disk should satisfy your craving. Not, as its title might suggest, a complete graphics package, but rather a selection of the tried and tested PD graphic design programs.

Andrew's Animation Studio puts in an appearance, fresh from our June CoverDisk, and is joined by plenty of other handy utilities. There's a mouse pointer animator, a font editor, and various file converters. There's also PPShow and PPAnim, and a variety of boot programs. Something for everyone.

Not really suitable for a beginner, as some of the programs require at least some experience with other programs of this kind. People who are interested in professional animations probably won't find anything new here, but it does make a useful sketchpad for ideas to see how they work.

There are some criticisms, not least of which is that a lot of the programs are in German, which won't make things that much easier. Also, many of the programs don't have Docs which doesn't help, especially when the actual programs are still in their native tongue.

Still, what you do get for the price is plenty of useful graphics tools, and if you can read German then you shouldn't have any problems at all.



The many wonders that the patchy Graphics Construction Kit can offer

Goldstar Computers (EC) Ltd.

P.O. BOX 2, TYLDESLEY, MANCHESTER, M29 7BN

(0942) 895320

OFFICIAL DISTRIBUTORS OF PREMIER SOFTWARE OF THE USA
Two disk catalogue only 75p (Free updates!!!) Premier Catalogue £1.00

UTILITIES

U07 – Dcopy *V1.6* – Brilliant backup utility
U10 – Jazzbench – Greatly enhanced WB
U15 – RSI Intro Maker – *With docs by HIM!*
U17 – Razor Tools – Excellent disk
U20 – Master Virus Killer *V2.1* – V.Good
U25 – Fonts & Surfaces – Cut and Paste
U32 – C-Light – Lapsed commercial Tracer
U33 – M-CAD – Computer Aided Design pack
U35/6/7 – Darkstar Utils – Nos 2 to 4
U38 – Assassins Boot Utilities – Excellent
U42 – SID *V1.06* – The *only* directory util?
U43/4 – Catalogue Workshop – Rather good
U45 – 52 Clip It! – Was once ***20*** disks!!
U53 – COMMS – Good but a little dated
U54 – Hard Disk Utils – Wouldn't be without
U56 – TSB Vector Designer – For RSI fans
U57 – Messysid *II* – Ultimate in transferers
U58 – PCeMulator – An exceptional tool
U61 – Intercostal Utils – Brilliant disk
U62 – Quickbench *V1.1* – Bootable RRAD
U64 – Brilliant Boot Utils – Hi Roy!
U69 – Alpha Flight Demo Creator – Old!!
U70 – Darkstar Utils 5 – Yet another!
U71 – Spacewriter – Lovely intro writer
U83 – Sculpt 3D Scenes – For Sculpt owners
U85 – ESA Utils 1 – Brilliant disk
U86 – Full Force Utils 2 – Seventy Utilities
U87/8 – Graphics Management
U90 – Geneology database – Needs 1 meg
U93 – Spectra paint *V3.2* – Brilliant rival
U94 – Opti Utils 1 – Excellent quality
U97 – North C – Famous C compiler ***V1.3***
U98 – 104 High Quality Clip Art
U112/3/4 – C Manual – A little *light* reading
U118 – Pendle Europa Utils 7 – Excellent
U119 – Diskmaster *V3.2* – Directory Utility
U121 – Spectrum Emulator – Rather good
U129 – Pascal Compiler – Very popular
U131 – Assassins Multivision – GFX tools
U136 – Electrocad *V1.4* – Latest version!
U143 – SuperKillers – **BOOTX *V4.04***
U144 – HamLab – Iff conversion prog
U145 – Total Utils 1-20 – Utilities
U146 – APDC 25 – Xlisp, Mod2, logo, forth
U153 – Xenon Utils – Seventy-five utilities
U156 – Garfield Clipart – Useful stuff?
U159 – A64 – Autobooting C64 emulator
U160 – RSI Extras – More bobs, sprites etc.
U161 – Anthrox Utils *V5* – Recommended!
U162 – Deflex Utils 1 – Unusual collection
U170 – Icon Magic – Excellent programme
U172 – DTP – *NEW ENGLISH VERSION*
U176/7 – WindowsBench – By MikeSoft (u)
U181/2/3 – QL Emulator –Excellent
U188 – Programming 1 – Lots of info
U192 – Night Flyers 4 – Excellent disk
U195 – Opti Utils 2 – Latest version utilities
U196 – Opti Comms – *Ultimate* Comms disk
U197 – C Dir Tools – Stuffed full of them!
U199 – NUKE *V1.4b* – **Latest Release**
U200 – Imploder *V4* – **Latest Release**
U207 – Printer Utils – By the Assassins
U208 – Fractal Generator – By T Richter
U209 – Dynamite Fonts2 – More cut n paste

EDUCATIONAL & GAMES

G01/2/3/4/5 – Ed-Pack – Teenagers & over
G06/7 – Learn & Play – Infant + junior age
G11/2 – Game Solutions – Very good
G14 – Talking Colouring Book – Nearly OK
G20 – Turrican II Demo – Playable demo
G22 – Tennis – 3D game, needs 1 meg!
G31/2 – Star Trek – By Tobias Richter
G35 – Board Games – Includes Monopoly
G38 – Frantic Freddy – Good arcade fun
G39 – Flaschbier – Excellent game
G41 – Amigaman – Chess *V2* also drip
G43 – Megaball – Brilliant breakout clone
G44 – Wacko Jr in Wonderland – Brilliant
G46 – Seven Tiles – Good Speedball clone
G47 – Wizzy's Quest – Very nicely done
G50 – Shapes – Absolutely brilliant for kids
G52 – Merv the Merciless – Excellent
G53 – Zeus – Very addictive tile game
G55 – Sealance – Sub strategy type game
G62 – POM POM Gunner – *Very Good!*
G63 – Hollywood Trivia – Quite good
G64 – Mental Image 1 – Best PD selection
G69 – Darkstaff – Written with speccy emul
G70 – Skier – Excellent game
G72 – Snakepit – Suitable for the kids, good
G73 – Blockit – Very nicely done by EP
G74 – CUBULUS – By Tobias Richter
G76 – Ready Robot – Educational pre school
G80 – Peter's Quest – Lovely graphics
G82 – The Maze – Incredible 3D maze
G83 – Tomtespelet – Needs two players
G87 – Llamatron – Brilliant by Jeff Minter
G89 – Chinese Checkers – Addictive game
G90 – Mayhem – Similar to Datastorm
G91 – Insiders Club – Stock Market strategy
APD59 – Super Quiz – Excellent quiz game
APD62 – Arcadia – Nice breakout clone
APD110 – Crossfire – Very nicely done
APD115 – Baloonacy – Superb for the kids
APD130 – Wooden Ball – Brilliant!!!
APD137 – Tile Trial – Good tile game
APD142 – Pair Crazy – Very good
APD146 – Fruit Machine – For the addict
APD148 – Demolition mission
APD149 – Gobbit/Pontoon – Both good
APD150 – Quizmaster – Excellent
APD178 – Mastermind/Pairup – Good
APD180 – Dungeon Delver – Brilliant
APD182/3 – Pixie Kingdom – Very good
APD314 – Blackjack Trainer – Superb
APD315 – Silver Bars & The Enemy
APD326 – Hyperball – ***Best yet, get it***
APD329 – Fruit Machine – Brilliant game
APD334 – Snake in the Grass – OK

BUSINESS & SERIOUS

B02 – Wordwright – Wordprocessor
B04 – Clerk – Accounting
B06 – U-Edit – Very powerful wordprocessor
B07 – Flexibase – Powerful yet easy to use
B09 – Amibase *V3.76* – Excellent database
B10 – Inventory & Memopad – Very handy
B12 – Business Card Maker – Pretty Good
B14 – Visicalc – Similar to Lotus 1-2-3 on PC
B17 – QED – Superb text editor
B18 – Textplus *V3.0E* – Edit crunched files!
B19 – 600 Business Letters – Brilliant
B20 – Messysid *V2* – Latest version
B21 – BBase II – Easy to use database
B22 – DataBase Wiz – Name & address
APD52 – Forms Really Unlimited
APD119 – Electrocad demo *V1.4*
APD132 – Family History Database
APD138 – Spanish Tutor – Pretty good!
APD257 – Cassette Labeller – For the inlays
APD266 – Amos 3D Demo

SLIDESHOWS & PICS

P05 – Pendle Europa Slideshow – V. Good
P09 – Sunslide II – Exceptional quality
P11/2 – Nasa Slideshows – Both 1 & 2 here
P25 – Roger Dean – Excellent slideshow
P28 – Sunslide III – Brilliant follow up
P32 – Agatron 6 – From Tobias Richter
P33 – Agatron 8 – More from TRs stable
P40 – Max's Art – Very nicely done
P41 – Nemesis Prologue – From Hanibal
P47 – Joe Slideshow – Exceptional artwork
P48 – Psygnosis Slideshow – Rather brilliant
P54 – Sunconnection – More from this group
P62/3 Channel 42 & Silents – Very good
P65 – Agatron 12 – Fantastic quality
P66 – Fraxion Future Visions – Very good
P67 – Agatron 11 – Incredible standards
P76/7 – Nemesis Chapt. 1 – The next chapter
P78/8 – Laurel & Hardy – Brilliant for fans
P83 – Invisible World – Bugs n things
P85 – Robocop – By Hanibal, *Unbelievable!!*
P89 – Art for Arts Sake – By Hanibal, Brill
P91 – Pixelium – Absolutely superb
P93/4 – Star Trek Megademo – 1 Meg min
P95 – Rick Parks Art – Quite incredible

ANIMATIONS (most 1mb)

A06 – More Aerotoons – By Eric Schwartz
A10 – Batman – This is brilliant (by ES)
A11 – Puggs in Space – Brilliant
A12 – Probe – The most famous of all anims
A17 – Stealthy II – Excellent little animation
A19 – Star Trek Fleet Manoeuvres – Good
A20 – Agatron 26 – Dry dock
A13 – Agatron 2 – Includes F15 fighter
A48 – Busy Bee & Tree Frog – Very good
A49 – Fractal Flight – Small screen anim.
A58 – Walk – Brilliant chrome legs walking
A61 – Agatron 15 –Billiards & Lotus + F15
A62 – Stamp Collector – Brilliant sequence
A63 – Juggler II – Very, very funny. See it!
A67/8/9 – Station at Kerne – 2 Meg
A70/1/2 – Lost In Space 2 Meg
A76 – Agatron 30 – Millenium Falcon
A77 – Agatron 17 – Twok and Mensch
A78 – Agatron 24 – Kall and ping pong
A79 – Agatron 33 – Probe & bird of prey
A81/2 – Walker & A1000 – 2 Meg
A83 – Discovery Shuttle – Very good
A84 – Agatron 36 – Bird flight
A87 – Car – Lotus & Unicycle, brilliant
A88 – Bunsen Burner – Brilliant 3D flight
A89 – Agatron 22 – Includes aproach + more
A90 – Agatron 20 – Belle Huey Helicopter
A91 – Franklin the Fly – Needs 2 drives
A94/5 – X-Wing – Rather brilliant sequence
A96/7 – Light Cycle – From Tron and Brill
A98/9 – Anti-Lemmings – 2 Meg
A100/1/2/3/4/5 – The Wall – Exceptional
A107/8/9/10 – The Landing – 4 Meg
A111 – Mars – Absolutely incredible, get it!
A112 – Juggette II – Another hilarious anim
A115 – Agatron 27 – Book and others
A116 – Agatron 28 – Disconnect, Beautiful
A117 – Agatron 29 – Millenium Falcon
A124 – Shuttlecock – By Eric Schwartz
A126 – Real 3D Anim – "Real Pinball"
A127 – Real 3D Anim2 – T-Pot and balls (?)

MUSIC

M01 – Sound Samples – Includes perfect sound
M04 – Vangelis – Brilliant music & graphics
M10 – Jean Michel Jarre – With good pics
M14 – Brunos Music Box 2 – Very good
M15 –Sound of Silents – 7 tracks, V-good
M18 – Amigadeus – By Rod Baxter, Brill
M19 – Classix 1 – Mr Baxter strikes again!
M20 – Classix 2 – More of his formidable work
M34 – APDC 11 – Sound utilities
M35 – APDL 28 – *MIDI UTILITIES*
M42/3 – Soundtracker *V4* –Excellent
M52/3/4/5 – Modules – Need I say more?
M58/9/60 – Metal Modules – Good
M61/2/3 – Sound samples for S/Tracker
M87 – Games Music Creator – Difficult
M88 – Pendle Europa 6 – Excellent disk
M105 – Burning Independence II – Brill
M115 – Scoopex Music Utils – By the score
M121 – Sunconnection – Nicely done
M131 – Deluxe Music Data – Needs DM
M134 – Kefrens Jukebox – Good
M145 – Midi Programmes
M152 – Midi Programmes – More
M165 – MED *V3.11* – Fantastic music editor
M169 – Chip Music – 43 tracks to hear
M172 – Audiomagic *V1.1* – Brilliant utilities
M175 – Startracker – 8 track tracker (?)
M182 – Future Composer – Pretty good
M186/7/8 – Do The Bartman
M192 – Do The Bartman Re-Mix!!
M196 – Powerlords Sound Utilities
M198/9 – Vivaldi – By Rob Baxter
M201/2/3 – House Samples
M208/9 – RSI Modules Disks
M216 – Drums & Pipes – Brilliant
M223 – RSI Modules Disk 3
M225 – Audiomagic *V2* – More utilities
M227 – Psygnosis Samples – Sound samples
M223 – Jean Michel Jarre Live – ***Brilliant***
M234 – Delta Music Editor – Very good

DEJA VU (incorporating AMOS licenceware) £3.50

LPD1 – Colouring Book – Simple for pre-school children upwards **512k**
LPD2 – Arc Angel Maths – Educational games, add, subtract etc, etc **512k**
LPD3 – Galeons – Very effective follow up to the Dogfight game, Excellent **1 meg**
LPD5 – Jungle Bungle – Superb adventure game for kids, Icon driven **1 meg**
LPD8 – Work & Play – 3 educational games for young kids. Recommended **1 meg**
LPD14 – Play It Safe – Aimed at educating the young kids about safety **1 meg**
LPD20 – Wordy – A very nice, simple to operate wordprocessor, V.good **1 meg**
LPD22 – LC10/200 Fonts – This enables you to install more fonts in your printer **512k**
LPD24 – The Shining Way of Kung Fu – This **TWO DISK** set is very nicely put together but costs a little more **£5.50** **1 meg**
LPD25 – The Mission – Brilliant text adventure written in Hi Soft **1 meg**
LPD27 – Flower Power – Educationally orientated for the very young **1 meg**
LPD28 – BudBase1 – Beautifully easy to use and extremely user-friendly, try it **512k**
LPD29 – Big Top Fun – Yet another brilliant educational game from Len Tucker **1 meg**
LPD30 – Shymer – Wonderful adventure game for kids, beautiful graphics **1 meg**
LPD32 – Hard Drive Menu System – Superb hard drive utility, used by us!
LPD33 – Amos Adventure Kit – This needs **AMOS** to enable you to create your own adventure games, excellent
LPD34 – Invoice Printer – For use by the Small Business firms, just print out your invoices on your **OWN** headed paper to save cost and time. Very nicely done **1 meg**
LPD35 – T-TecDraw – Full technical drawing program. Fantastic results. **1 meg**
LPD38 – Amos Art – Full of goodies for inclusion in your own **AMOS** creations
LPD40 – SpriteBank Editor – Bloody Superb, Need I say more? Needs AMOS
LPD41 – Rescue – Created using incentives 3D con kit and is nicely done! **1 meg**
LPD45 – MUSIC BOX – The ultimate in music education for kids, this is quite simply the best I have ever seen **1 meg**
LPD46 – Magpies Clipart – Crystal clear images of clipart, categorised **512k**
LPD47 – Dirty Cash – Beautifully done fruit machine simulator, excellent **1 meg**
LPD48 – SPARX'S STOCKING FILLER – A wonderful Christmas gift for any child with the emphasis on fun more than education, quite brilliant! **1 meg**
LPD49 – Marvin the Martian – A traditional maze game, for children **1 meg**
LPD50 – Magpies Clipart 2 – More quality clipart images from the magpie **512k**
LPD51 – Magical Young Artist – A colouring in type program for kids **512k**
LPD52 – LC24/200 Fonts – Same as **LPD22** but also thought to be compatible with most printers! **512k**

LPD53 – Magpies Clipart 3 **512k**
LPD54 – Magpies Clipart 4 **512k**
LPD55 – SpriteX V1.32 – An update to the earlier version and enhanced **AMOS**
LPD56 – C Text V1.32 – An extension to AMOS to allow you to use icon based fonts which can be drawn in up to 16 colours. Some fonts are supplied on disk. **AMOS**

FISH 1-550, T.BAG 1-54, SMAUG, PANARAMA, NZAUG, TOPIK, SNAG, AMIGOS, SCOPE & THE PREMIER COLLECTION AVAILABLE

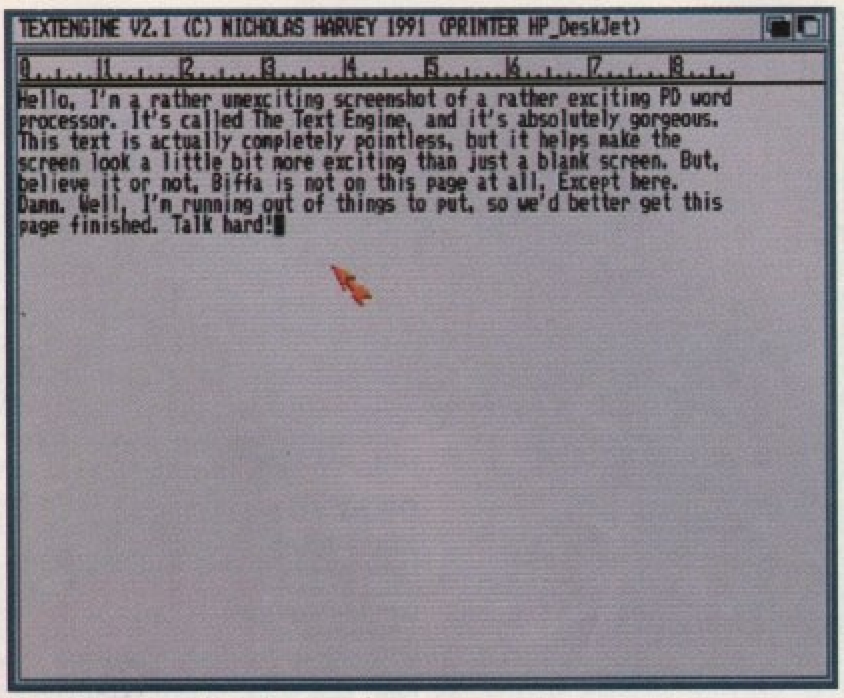
£1.20
Per Disk Plus Postage

IF YOU ORDER 10 OR MORE, YOU GET A FREE ONE

POSTAGE:
UK and BFPO: Please add 50p to order.
Europe: Please add 20p per disk.
World: Please add 40p per disk

P S D

CO-FOUNDER OF THE PUBLIC DOMAIN STANDARDS FOR DISTRIBUTION AS ENDORSED BY COMMODORE UK



Text Engine v2.1 is possibly the best PD wordprocessor ever

Text Engine v2.1

17 Bit Disk No.1401

Guess what this is. An extremely good shareware wordprocessor, with a bunch of features and a friendly approach that makes it very easy to get the hang of. That's what it is.

Some of you may be familiar with Text Engine, so for your benefit the new version boasts a new menu layout, erase facilities, disk DIR function, and apparently this time the Delete key works properly! It also features 10 macros, which can easily be redefined using the cleverly designed macro editor. All the features you'd expect from a full price WP package and, as they say on TV, many more.

It can switch from NTSC to PAL mode, so it's compatible with whatever setup you use. There's plenty of text styles, from italic to extra height, which only show up when printed, but markers appear to let you know what's been changed. It's an amazingly professional package. There's also a spell checker on the disk and a word count in the program.

If you want a great wordprocessor for under a tenner then don't hesitate to get hold of this. As it is shareware the author is relying on you, the honest and lovable public, to pay him his dues and send him a measly fiver. You know it makes sense.

Label Designer

17 Bit Disk No. 1389

This is one of those funny little utilities that is useful in a strangely useless sort of way. What it does is, quite simply, is allow you to design labels and print them out for your disks.

It's the sort of thing that may never have crossed your mind, but it's a pretty handy thing to have. It should be of extra special interest to people thinking of setting up a PD library, or just for making your *Amiga Computing* Gallery disks look more impressive.

It's very easy to use, and will load IFF files which you can then edit to suit your purpose before printing out. With a bit of effort you can get them printed on sticky labels and have a really efficient little operation.

That's about it really. It's easy to use, there's some example files on the disk, and it's as useful as you make it. If it sounds like the sort of thing you might need then go get it.

Scanner disk magazine

Telescan Computer Services

Disk-based magazines vary from the downright awful to the pretty damn impressive, and luckily Scanner is one of the impressive ones. It comes on two disks – one disk containing the bulk of the editorial and the second disk holding any games or demos that wouldn't fit on the first disk.

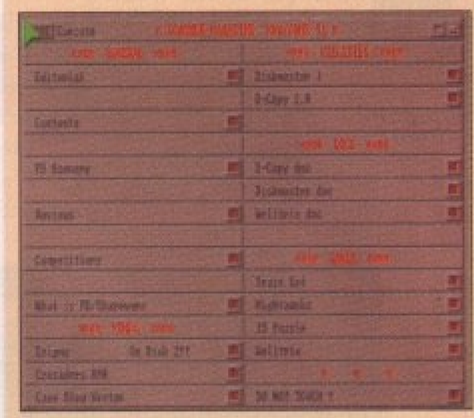
For your money you get a plethora of the latest demos and PD games, plus some golden oldies that you may have forgotten about. The games are almost always some of the best on the scene and vary from shoot-'em-ups to puzzle games.

On the editorial side you get regular PD news updates, which cover the whole PD world fairly comprehensively, a letters section which proves that PD is becoming more than just a hobby for a lot of people, and a variety of features, memory space permitting.

The writing is always informative, and refreshingly informal, and the direct interaction between readers and the magazine itself is a sign of a healthy interest in disk magazines.

For the technically minded among you, there's always a good selection of new PD utilities to try out, which makes the magazine a lot less short-sighted than other disk magazines which can tend to concentrate on coders and other small areas of the Amiga PD world.

Also published as a spin-off from Scanner is Humdinger. This irregular series manifests itself as two disks stuffed with PD games, and I do mean stuffed. You get about 20 games per disk, so there's a couple of hours to be spent just looking through all the games on offer. Bargain city, dudes. A lot of thought and planning has gone into Scanner – the front end is easy on the eye and everything is only a mouse click away. Issue four should be available as you read this, as should Humdinger the Revenge.



The polished front end of Scanner disk magazine, and you can't tear the pages!

All in all, Scanner is possibly the best disk-based magazine around, and if you want a monthly supply of the cream of PD then a subscription to Scanner is worth its weight in vector bobs.

Insanity Tools

17 Bit Disk No. 1418

No less than 203 utilities on one disk. Yup, count 'em – 203 utilities. Obviously, there are about fifty or so virus killers, and several million sample rippers, but, to coin a phrase, variety is the spice of life.

Now, if you actually expect me to tell you about each and every utility, then you're sadly mistaken. There is a limit to journalistic inspiration you know, but I will tell you some of the goodies you can get from this disk.

There's a FixSaddam, to sort out that highly humourous virus that really had everyone rolling in the aisles, there's a couple of boot intros that you can install on your disks so that you can have games playing as the disk boots, there's a fractal generator, the perennial PPmore, and literally hundreds more.

I think it's fairly safe to say that you'll find something of use here, and even if you only ever use five or even ten of the utilities, you'll have got your money's worth. Serious techy boffins should look out for this one.



This is one of the default pictures you can use for the Label Designer

AMIGA PD AMIGA PD AMIGA PD AMIGA PD AMIGA PD AMIGA PD AMI

DEMO'S

A288	Bart Simpson Demo/Decay
A296	Phenomina Enigma Demo
A304	Amy vs Walker/E. Schwartz, 1 Mb
A329	Sickness Simulator/Hilarious!
A331	Anti-Lemmings Demo/2 Disks, 2 Mb
A334	Batman the Movie/E. Schwartz, 1 Mb
A336	Shuttle-Cock Anim./E. Schwartz, 1 Mb
A338	Mr Potato Head II/Chris Hill (1Mb)
A342	Plasmutex 91/Excellent Plasm Demo
A343	Virtual World Demo
A350	Scoopex Demo Disk 165
A352	Trackball Animation (1Mb)
A360	Digital Innovation/Anarchy's latest
A362	Defjam Demo/Well Worth a Look
A367	Unicycle Anim (1 Meg)
A370	Piano Anim (1 Meg)
A372	Terminator 2 Slideshow (2 Disks)

SOUND

S001	Sound tracker. Music programme (needs ST-01)
S003	Games music creator
S004	Med music programme V.3.0
S006	Med V3.11/1 meg only
S010	Protracker 1.1B (needs ST-01
ST-01	Instrument disk for Sound/Protracker
ST-07	Speech samples for Soundtracker

EDUCATIONAL

E001	Education Disk I (Age 5+)
E004	Education Disk 4 (Age 5+)
E006	Learn and Play (Age 4/5+)
E008	Colouring Book (Age 5+)

GAMES

G033	Drip/Arcade Game
G037	Twintris/2 Player Tetris
G044	Chess/superb version
G048	Seven Tiles/Speedball Game
G049	Eat Mine/Emerald Mine Game
G051	Frantic Freddie/Arcade Game
G052	Pipeline/Pipemania Game
G059	Wheel of Fortune/TV Quiz Game
G060	Quizmaster v1.0/A. Chetham
G061	Property Market/Trading Game
G064	Game Cheats/Codes + Solutions
G067	Mental Image Game Disk 1
G068	Casino Game/Compilation
G069	Space Games/Compilation
G069	Space Games/8 Games
G071	Castle of Doom/Adventure
G072	Speccy Emulator & Games
G073	Megaball/Breakout Game
G074	Adventure Writer
G076	Star Trek Shoot-em-up
G077	Simpsons Shoot-em-up
G078	Balloonacy/Arcade (1Mb)
G079	Wizzy's Quest/Arcade (1Mb)
G080	Popeye LCD Game
G081	Cubulus/'Rubic' Type Puzzle Game
G082	Downhill Challenge/Ski-ing Game
G083	Destination Moonbase/Lunar Lander Game
G084	Fruit Machine Simulator/Amos PD
G086	Pair-It/Amos PD (1Mb)
G087	Jeopardy/Risc Style Game (1Mb)
G088	Master of the Town/Target Practice
G090	Five Alive/Compilation 5 games
G091	Computer Conflict/Shoot-em up
G092	Quiz Master 2 Professional
G095	Zeuz/Puzznic Game
G100	Mech Fight/Si Fi RPG Game
G101	H.A.C.L. Solutions/Games Hacks
G103	Pom-Pom Gunner/Shoot-em-up
G107	Monopoly/English version

MUSIC

M002	Groove is in the heart
M016	Feel The Rhythm
M017	Tecnotronic Mega Mix
M021	Pet Shop Boys/Suberbia
M025	Digital Concert 3
M028	Digital Concert 6
M033	808 State remixes
M038	100 C64 tunes
M040	Simpsons Do the Bart man. 3 disks
M042	Betty Boo 2 discs
M044	Miami Vice Remix
M062	Phenomena Music 1/18 wicked tunes!
M067	Maddona Vogue/Slides & Music
M068	Madonna Spanky
M071	D Mob music 2
M076	Synth Music 6/3 tunes inc. Oxygene
M080	Janet Jackson/Rhythm Nation 1814
M085	Amazing Tunes II/3 Disks (1Mb)
M089	Computer Game Music Disk/Compilation
M093	EON Music Disk/8 tunes
M096	Intruder Music Disk/Vanish
M097	Technomania II Music Disk

No Minimum Order

Speedy Service

95p PER DISK

100s More Disks Available

Send 75p for Catalogue Disk

UTILITIES

U001	Amibase Excellent Database
U003	IFF Fonts and surfaces for DTP
U007	Dope intromaker
U008	Space writer Demo creator
U009	RIM relational database
U010	Visicalc spreadsheet
U011	Jazz bench work bench replacement
U012	North 'C' compiler
U027	Emulators/C64 & Atari ST
U030	Bank N/Accounts Programme
U061	Master virus killer V.2.1 kills 124 viruses
U065	M-cad. Computer aided design
U067	Crunchers compilation inc. power packer
U070	D-copy backs-up protected disks (most)
U073	Mandalbrot. PD compilation
U099	ABPD utility disc. 30+ Utils.
U109	Darkstar utilities 3/Compilation
U120	SID/CLI utility
U124	C – Light/Ray Tracing package
U125	Red Sector Demo Maker
U129	PDC 3.33/Complete C Compiler
U130	Black Tiger Star Utilities
U135	'C' Manual/latest version (4 disks)
U139	Fonts for Red Sector Demo Master
U140	Wordright/WP & Spellchecker
U152	A64 Emulator V1.01/C64 Emulator
U155	Rainbow Writer/Demo Creator
U158	Trilogy back up disk/Copy compilation
U160	Delta Crew Virus Fillers/Compilation
U161	Mandelbrot Animation V1.2
U162	IBM PC Emulator/2 Disks
U163	Typing Tutor
U164	ABPD Comms Pack/Ncomm and JRcomm
U165	Door to Door/Route planner
U175	TSB Vector Designer V1.1
U176	Vector Ball Editor V1.0
U177	RSI Demo Maker Music Disk 1
U178	RSI Demo Maker Modules Disk 2
U180	RSI Demo Maker Utility Disk
U218	TV Graphics/Video Graphics Clip-Art
U219	TV Fonts/Video Fonts Clip Art
U220	ClipArt for DTP

HARDWARE



QUICKSHOT PYPHON 1 TURBO III £9.99

Features

- Ergonomical Design
- High Speed Auto fire Capability
- 4 foot cable
- 4 position operating mode selector
- Multi System Joystick



QUICKSHOT MAVERICK 1M £11.99

Features

- Revolutionary New Design
- Multi System
- 2 Fire Buttons
- High Speed Auto Fire Option
- 6 Deluxe Micro Switches
- 2 Six foot cables for 1/2 player selection



QUICKSHOT FLIGHTGRIP 1 £9.79

Features

- Multi System
- 2 Fire Buttons
- High Speed Autofire Selector
- 4 Foot Cable
- 8 Direction Thumb Control Pad.

SPECIAL OFFER

10 QUALITY BRANDED BLANK DISKS 135 TPI INC LABELS £4.99 + p&p



KONIX NAVIGATOR £13.99

Features

- Ergonomical Design
- Solid Steel Shaft
- Fully Micro Switched
- Amiga, Atari, MSX Compatible
- Autofire



KONIX SPEED KING £10.99

Features

- Fully Microswitched
- Fits your hand to give natural grip
- Solid Steel Shaft
- On/Off Autofire switch
- Amiga, Atari, Amstrad, MSX compatible.



COMPETITION PRO 5000 £7.99

Features

- Robust Steel Shaft
- Fully Microswitched
- Rubber Return
- Duel Fire Buttons
- 1.5M Cable



ZIP STICK SUPER PRO £11.99

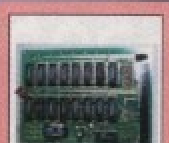
Features

- 12 Month Guarantee
- Steel Shaft
- A.B.S. Case
- Microswitched
- Triple Fire Action
- High Speed Autofire



ACCESSORIES

Deluxe Mousemat	£2.99
Amiga 500 Dustcover	£2.99
40 Cap Storage Box	£4.99
80 Cap Storage Box	£5.49
120 Cap Storage Box	£6.99
3.5" Disk Drive Cleaning Kit	£2.49



1/2 MEG UPGRADE CARD

Features

- 16 Chip Configuration
- Socketed Chips
- High Quality PCB
- Direct Replacement for 501 unit
- Non Clock version £24.99
- Clock Version £28.99

HOW TO ORDER

Cheques & PO's Payable to ABPD.

Send order requirements and your name and address to:

ABPD — AMIGA BANDITS PDL.

Dept H
45A Alma Road,
St. Albans,
Herts AL1 3BJ

Telephone: 0727 833363

UK orders please add 50p towards P&P.
Europe add £1 per item
R.O.W. add £2 per item
Personal callers welcome, Please phone first



Budbrain Megademo | Megaball | Oh no ! Its Bart !! | SID Directory util | Silents slideshow | TV Graphics | Tobias Richter Slides | The No.1 Choice ! | IFF Slide

START

TOP TEN DEMOS

862 VIRTUAL WORLDS
861 INSPIRATION NONE
871 ALPHA OMEGA
779 ECES DEMO
865 PLASMUTEX
707 ENIGMA
164 MENTAL HANGOVER
599 BUDBRAIN 2
869 AMEGA MUSIC WINNERS
808 GLOBAL TRASH

TOP TEN UTILITIES

377 NORTH C COMPILER
378-379-380 C MAMAUL
939 TEXTPLUS 3.0
824 DEMOLISHER UTILS
592 WORDWRIGHT
593 BANKIN
568 RSI DEMO MAKER
496 VISICALC
495 RIM
730 PRINTER DRIVER UTIL

WE ARE ONE OF THE FOUNDER MEMBERS OF THE UNITED PUBLIC DOMAIN DISTRIBUTORS

DEMOS

DEMO OF THE MONTH: DIGITAL INNOVATION BY ANARCHY This one is brilliant anarchy have really got one hell of a demo here, great music by Nuke, along with some superb routines from different parts of the world !

160-161-162 ALCATRAZ MEGADEMO Huge megademo lots of different part to it !
1002 AMOS 3D DEMO Shows you some of the effects that are possible. Great !
862 ANARCHY INSPIRATION IS NONE Brilliant demo with superb ray traced Gfx
416 ANARCHY Phantasmagoria, superb demo with excellent music. & More
646 ANARCHY MADNESS ! Demo with Bobs and Filled Vectors, superb music!.
645 ANARCHY SYSTEM VIOLATION Classy demo - Vector Bob Gfx Cool Music.
599 BUDBRAIN II Hilarious megademo, house music video and cartoon sketches
426 COOL FRIDGE A plasma megademo, if you like these FX get this one.
257 CRIONICS MEGADEMO Includes the superb maddona demo and more !
426 CRIONICS NEVERWHERE Superb Real world demo and Madonna pics
834 CRIONICS TOTAL DESTRUCION Very nice plasma Fx plus a kickin music track
545 CRUSADERS SPACE DELIRIA Fantastic music & great effects.
549 CRYPTOBURNERS HUNT FOR RED OCTOBER Lovely filled vector demo.
643 CRYPTOBURNERS 3D Get out your 3D glasses for this one its mega !
261 CRYPTOBURNERS MEGADEMO 2 Excellent effects and music
581 CRYPTIC A-Z twenty six demos and intros crammed onto one disk
534 DEEP SEA Tasty demo by the Intuition guys. Lovely bobbly music track
453 E P I C Incredible preview to a new game by Ocean, Filled vectors. 1 Meg
611 FARTS AND BELCHES Is this for real ... Sampled farts. Well ...
615 FRACTALMANIA Collection of Fractal demos, picutres and more.
136 FRAXION "REVENGE" Cartoon style horror video recorder ! Very funny !
546 FRAXION FUTURE VISIONS Superb Aliens-type intro plus great pictures
833 GOLDFIRE OBLIQUE INFINITY Nice megademo with acid style video
602 HORIZEN SLEEPING BAG Multipart demo with vectors & funky music
607 IRAQ DEMO Amusing demo of Saddam meeting President Bush ...Kaboom !
149 150 KEFRENS MEGADEMO VIII Some kickin' demos and some cool music
789 KEFRENS THE WALL A great demo from the kefrens group of coders.
883 884 KGB MEGADEMO (2) great ! A great house music video & vector drums.
592 - 593 MAX OVERRIDE PLenty of filled vector stuff with impressive music
647 MAGNETIC FIELDS HYSTERESIS Excellent vector graphics, plus music !
867 868 MAGNETIC FIELDS SPACED OUT (2) Music disk with some good tracks
732 PHENOMENA DEVIOUS DISASTER Demo with Great effects and brill music
779 PHENOMENA ECES A very good demo with a light sourced filled vector !!
693 PHENOMENA INTERSPACE Is time Linear ? Well get this demo and find out
??? PHENOMENA JOYRIDE A superb new demo by Phenomena. Wicked music trs
865 PLASMUTEX Kickin Soul/Soul music beats plus copper and plasma FX !
871 PMC ALPHA OMEGA Absolutely superb filled vector demo. Lovely music !
799 QUARTEX SUBSTANCE Superb demo one of those you simply must have !
151 REBELS COMA This one is a classic ! Best Acid style video on Amiga !
632 REBELS SNAP A nice demo with spooky style music track, Popular still.
[illegible]

GAMES

[illegible]

MUSIC

[illegible]

SOUNDTRACKERS

[illegible]

MEMORY MONSTERS

[illegible]

ANIMATIONS

[illegible]

SLIDESHOWS

[illegible]

UTILITIES & SERIOUS

[illegible]

FISH AND CHIPS

[illegible]

HARDWARE

SLIMPAK LIBRARY CASE HOLDS 10-12 DISKS SAFLEY £1.25 EACH • £9.00 FOR 10

80 CAPACITY LOCKING STORAGGE BOXES WITH DIVIDERS AND KEYS £7.95

MOUSE MATS RED/BLUE ONLY £1.25 !

3.5" DS/DD DISKETTES 10-£5.50 • 20-£9.50 50-£20 • 100-£38

MULTI COLOR DISK LABELS 50-£1.25 - 150-£3.00 500 £8.00

NEW NEW NEW NEW NEW NEW NEW NEW Look out for a brand new series of programs available soon from Start.

" THE IDIOTS GUIDE TO ASSEMBLY " will teach you all you need to know about programming on the AmigA with an easy to follow tutorial designed with beginners in mind. Call 091 565 2506 for details !

Mail Order Made Easy

CUSTOMER CHECKLIST ....

- AMIGA PD DISKS ARE ONLY £1.25 EACH !
- CHOOSE 2 PD DISKS **FREE** WITH EVERY TEN YOU BUY !
- POSTAGE • UK - JUST ADD 50p TO TOTAL ORDER
- EUROPE +25p PER DISK • WORLD +50p PER DISK
- **SAME DAY DISPATCH** BY FIRST CLASS POST
- TOP QUALITY - **GUARANTEED** !
- OVER **1600 TITLES** IN OUR LIBRARY
- **FREE** CATALOGUE & UPDATES WITH EVERY ORDER
- A FOUNDER MEMBER OF **UNITED PD DISTRIBUTORS**

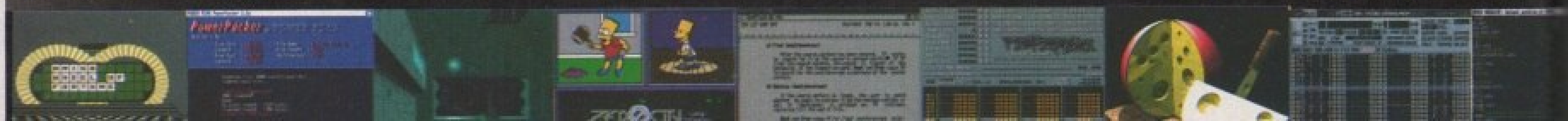
CREDIT CARD ORDERS
091 - 565 - 2506
AND ENQUIRIES

VISA MasterCard

- **BY POST** • JUST PLACE SEND YOUR ORDER TOGETHER WITH A CHEQUE/PO AND WE'LL HAVE IT SENT OUT TO YOU IN A JIFFY !
- **BY PHONE** • CALL NOW FOR SUPER FAST SAME DAY DISPATCH (BEFORE 3PM). IF WE'RE NOT THERE TALK TO OUR ANSWERPHONE !

START, DEPT PD1, 20 HOLMESIDE
SUNDERLAND, SR1 3JE

Learn and Play | Powerpacker | Virtual World | It's him again ... | Textplus 3.0 | Protracker | Real 3D | MED Music Editor | Lharc

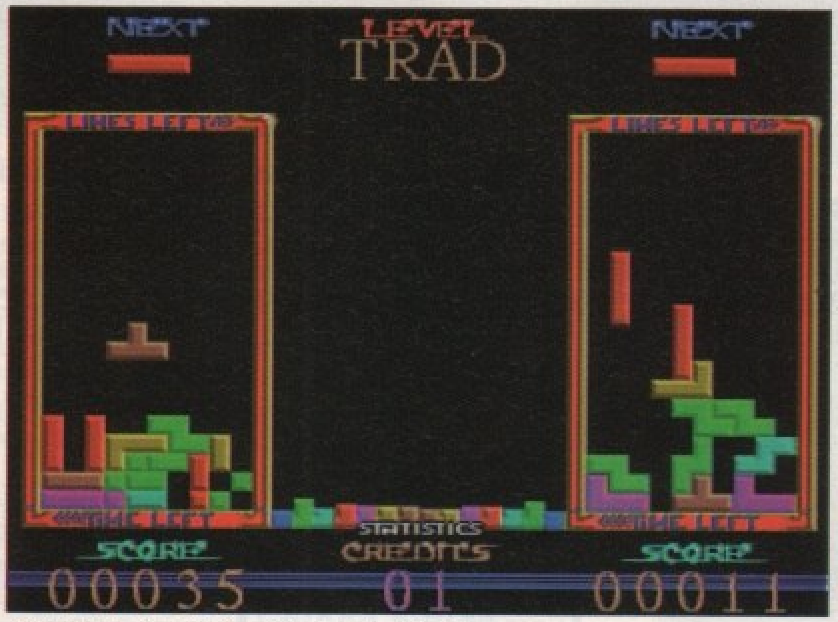


Super Twintris

17 Bit Disk No. 1419

Yup, it's that ol' Russian puzzle classic, updated and revamped for the PD world yet again. And yet again, it's great fun.

The big twist here is the inclusion of a simultaneous two-player option, so the heat is really on to beat your mates. Apart from that, there's very little else new about it. There's a cute bat and ball game as you boot up, and the presentation is first class. If you still don't own a version of this dangerously addictive game then this is as good as any.



Dismal German Oppo Wolf vandalism in Master Of The Town

Master of the Town

Digitz Disk No. GAME86

The Weirdest PD Game of the Month award definitely goes to this rather dodgy Operation Wolf clone. As most of the text in the game is in German, and there are no instructions, the actual ins and outs of the plot are slightly blurred.

What happens is that you are faced with a nice picture of a street, and must then smash everything by throwing stones at them. Or at least that's what it looks like. Thankfully, the game is apparently free of any dubious neo-Nazi overtones, so we can only assume that it's just the product of some rather twisted little German fellas imagination.

Gratuitous vandalism aside though, it's not really a very good game. As there are no instructions, you have no idea of just which things you must smash before the sirens start and the police arrive. Plus the fact that it's incredibly dull. Nice graphics, nice sound, dismal idea. Don't bother.



Seeing double in the updated Super Twintris, still as addictive as ever

Ring, ring, ring

If you've seen anything you fancy then give the bods in question a ring.

17 Bit 0924 366982
N.B.S. PD 0983 529594
AmigaNuts 0703 785680 (fax only)
George Thompson 0707 664654
Digitz 0709 571748
Scanner 0253 22296

AmigaNuts phone service is no longer in use so write to them at: AmigaNuts, 169 Dale Valley Road, Hollybrook, SOUTHAMPTON SO1 6QX

BattleCars

N.B.S. PD Disk No. G192

Ever fancied driving really fast and letting rip at other cars with a machine gun? Especially people who drive Allegros at 15 mph below the speed limit, no matter how many cars are queueing behind them. (Well, who hasn't?) Makes your blood boil doesn't it? Well, BattleCars lets you get revenge. Sort of.

It's a really straightforward concept. You've got two cars, and a large arena with some obstacles in it. All you've got to do is hunt down the other car and shoot it enough times so its armour gives way and it explodes.

The whole thing is seen in first person perspective, and the 3D view is surprisingly fluid. It's set at just the right speed as well, so you go fast enough to get the adrenalin flowing, but not so fast that you can't control your actions.

Another nice feature is the fact that you can link up with another computer and play against a mate. We couldn't try it in the office, but if it works then that should bring many a firm friendship crashing to the ground.

Battlecars is really good fun. It could have been better, though. The enemy car doesn't fire back so it does become a bit one-sided, and on the higher skill levels I often found that I lost for no good reason. Still, it's a good old-fashioned blast and certainly worth picking up for a couple of hours entertainment.



Kill the Lada! Motorised mayhem in BattleCars

PUBLIC DOMINATOR - Public Domain, Shareware and Licenseware for Amigas. 25,000 satisfied customers world wide.

Send Cheques & P.O.s to:
Public Dominator Amiga
PO Box 801
Bishops Stortford
Herts CM23 3TP UK.
ALL disks are Datapulse branded

0279 757 692
9am-5pm Monday-Saturday
Credit Card Orders and General Enquiries.
Send a stamped S.A.E. for a FREE printed catalogue.
All orders dispatched same day by 1ST class post.

VISA MasterCard

GAMES

ARCADE CLASSICS: An amazing pack full of nostalgic arcade games including: Space Invaders, Asteroids, Pac Man, Missle Command, Breakout and Qiz. Code GPA1 - £10.00.
ARCADE PACK 2: More brilliant arcade attacks with Tetris, Pipe Line, Air Ace 2, Organic Horror, Gore Blasters and Escape From Jovi excellent! Code GPA3. £10.00.
BOARD GAMES 1: A mega compilation of of classic board games includes Back Gammon, Five In A Line, Chess, Tiles, Flipper, Amigo, China Challenge, Master Mind, Amigaflation, Up and Down, Triangle and Triple Yacht Z. Order Code GPA4.£10.00.
CARD GAMES 1: If you like playing card games then this is the pack for you! Includes Card o Rama, Spades, Black Jack, Solitaire X, Klondike Solitaire, Canfield, Solitaire and Cribbage. Order Code GPA5. Only £10.00.
PSL1 - Space Blob is a brilliant platform cavern game. £3.00.
PSL2 - Mr Dig, collect the apples and kill the monsters 1MB. £3.00.
PSL3 - Q-Bold shoot blocks at the various random shapes decending £3.
PSL4 - Computer Conflict brill speech, graphics all action arcade game 1MB £3.
PSL5 - Subculture a shoot 'em up £3.
PSL7 - Dizzy Lizzy a game across between Pacman & Boulderdash £3.
PSL15 - Crystal Caverns. 1MB. £3.00.
DV5 - Jungle Bungle adventure in the jungle for children. 1MB RAM. £3.50.
DV6 - Pukado avoid the baddies as you empty the screen of tiles. £3.50.
DV7 - 4 Way Lynx a 22 level tile puzzle game. 1MB RAM. £3.50.
DV11 - Go Getter an excellent board game that will keep you occupied for hours! Req. 1MB RAM. £3.50.
DV16 - Reversi II based on the board game Othello. 1MB RAM. £3.50.
DV17 - Dog Fight!! a brill aerial shot 'em up. 1MB £3.50.
DV19 - X IT 50. A shoot 'em up. £3.5.
DV21 - Quingo an excellent quiz game where you answer questions and play bingo. Requires 1MB RAM. £3.50.
DV27 - Flower Power can you grow plants flower show? 1MB. £3.50.
DV3 - Galleons ship to ship combat a sequel to Dogfight II. 1MB. £3.50.
DV39 - Magic Forest II. 1MB. £3.50.
DV43 - LazerZone. 1MB. £3.50.
DV44 - Formula I Challenge. 1MB. £3.50. Team Management.
AMU13 - Bull Run US civil war simulator.
AMU14 - Battle Mech a strategy war game between robots.
PD90 - Tennis! and excellent implementation of the sport. 1MB.
PD79/80/81 - Star Trek by Twisted Images. Full graphics and sounds. 1MB 2 Drives £9.00.
PD215/216 - Star Trek by Agatron. Full graphics, sounds & animation from new generation Star Trek. £6.00.
SMAUG 156/157 - Star Trek by Jimbo Barbers a brand new game. 1MB 2 drives. £6.00. Full graphics, sounds.
SMAUG 149 - Moria V3.0 excellent full graphics adventure! 1MB.
PD233 - Holy Grail adventure. 1MB.
PD234 - Golden Fleece adventure.

LICENSEWARE

The codes PSL, PSFF and DV used in this advert are Licenseware there is no more to pay. Public Dominator pays the author direct for you. No discount for multiple buys can be given, the disks are sold at the price indicated.

EDUCATION

DV1 - Colouring Book for young children. £3.50.
DV2 - Arc Angel Maths includes graphics to aid learning. £3.50.
DV4 - Thinga Majig is a puzzle program with 24 built in puzzles to choose from. £3.50.
DV8 - Work and Play (requires 1MB RAM) 3 excellent programs Funtimes Table, Let's Go Shopping for maths and Click Clock tell the time. £3.50.
DV10 - Word Factory which is a games type enviroment for spelling. £3.50.
DV37 - Rocket Maths 4 part maths game - Take Off, Star Map, Rock Storm & Landing. Choose Easy, Medium or Hard with Times Tbale, Take Away, Add up & Divide. 1MB £3.50.
DV29 - Big Top Fun brilliant number and picture program for young children. 1MB. £3.50.
PSL14 - Classroom Maths. £3.00.
AMP5 - Over 8's pack. 2 excellent map drawing programs of any location on earth, Evo follows the evolution of life, Chemistry Element Periodic Table includes with details and graphics of all elements, Unit Conversion is a program that allows you to choose all types of unit i.e length, time, weight, speed etc and then do conversions and comparisons between them, plus more! German Language Tutor, Speak and spell tutor, Study Aid Cards, Hermes Formula, Cloud, the waether, GEO Time, GravitySimulator, FUNC2D, Gravity Well, Air Foil, Wave Maker and others. £12.50!
PSL8/9 - FUN TIME 1+2 aimed at children age 3 to 6. This disk is crammed with delightful tuition on many subjects: money, seasons, mouse, shapes, keyboard, clock and picture. £6.00.

FONTS

Fletcher font packs with 60 MULTI coloured fonts in each 6 disk pack at a cost of £15.00 per pack. The order codes for each pack are ***PSFF1, PSFF2, PSFF3, PSFF4.*** Fletcher font packs with 120 SINGLE coloured fonts in each 6 disk pack. Both of these packs are £15.00 each. The order codes are ***PSFFA*** and ***PSFFB.***
PD53-56 - Pdom font pack 50 single coloured fonts on 4 disks £10.00.
A full list of all the above fonts is on our Disk Catalogue.

GRAPHICS

AMP3 Graphics Pack 1. Mcad, ROT 3D drawing program, VDraw the painting program, RayTracer plus utilities: Clip It!, FilterPix, screen and window to disk savers, icon editors and more. £8.50.
AMP21 Graphics Pack 2. Mse Mandelbrot explorer, Atari ST & Apple Mac to IFF converter, PopColours, picture viewers. PolyGon, VIZ and KAL allow you to create weird screen displays. DBW Render raytracing £8.50.
PD502 - C Light Ray Tracing.
DV35 - T-TecDraw produce excellent high quality Technical drawings with printer option. 1MB. £3.50.
DV36 - FracGen II brilliant fractal generator. Very easy to use. £3.50.
DV40 - Sprite Bank Ed. Use with AMOS sprite bank manipulation. £3.50.
DV42 - X-Stitch prints IFF picture in Xstitch for embroidery. £3.50.
FF523 - ScreeJaeger save/print any screen.

ANIMATIONS

SCHWARTZ ANIMATIONS:
FF413 - Swiss Army F-16 In Combat, Stealthy Manuever II, Juggette. 1MB.
FF414 - Batman, LateNight,Terminal.
FF417 - Coyote 2: The Road Test.
FF418 - Amy the Squirrel. 1MB.
FF423 - Pogo to Mam'o'selle. 1MB.
FF450 - AmyVsWalker. 1MB.
FF490 - ANTI LEMMING. 2MB.
FF504 - SHUTTLE COCK. 1MB.
FF505 - THE DATING GAME. 3MB.
PLUS OTHERS
PD630 - It Read Top Secret animation cartoon story.
PD651 - Tree Frog, Window Man, Walking Man and Hammer.
SMAUG 213 - Shoope a silver woman with a teapot head and a hoola hoop.
SMAUG 90 - Harrier Jump Jet.
SMAUG 104 - Exploration - a globe with the Amiga logo on it spinning around then a missile is launched and this turns into a satellite! 1MB RAM.
SMAUG 132 - TellStar One A long animation of 2 space ships very good quality. 1MB RAM.
SMAUG 135 - Mars Flight a single seater space fighter flying over scenes from a habitated planet supposedley Mars. Requires 1MB.
SMAUG 136 - Twilight a car with headlamps on driving along a road in a landscape. 1MB.
SMAUG 142 - Monkey running and juggling a banana. 1MB.
SMAUG 146/147 - Dr Zorb II. 2MB RAM. The amazing Dr Zorb £6.00.
SMAUG 150 - Jet aircraft flying around a silver shiney ball inside a bubble. 1MB.
SMAUG 159 - Congaman and Gums a chap playing the congas and a fat fish jumping out of the water. 1MB.
PD1 - Walker I. 1Mb RAM.
PD2 - Walker II. 1Mb RAM.
PD73 - Star Trek Enterprise Dry Dock.
PD74 - Star Trek space craft flying around in a circle.
PD76 - Star Trek Shuttle landing on the SS Enterprise.
PD427 - Star Trek Leave Space Office.
PD83 - Space Ace.
AMU42 - The Juggler.
FF200 - 'NotBoingAgain'. 1Mb RAM.
FF208 - 'Asteroid Field' a space ship 'swurving' through an asteroid field.
PD148 - Escape from Singes Castle.
PD442 - Fillet the Fish a major animation story cartoon.

DEMOS

AMP9 - RSI Demo Maker Kit includes the RSI demo maker, The Special Brothers Vector Designer plus loads of Logos, Music, Bobs and Sprites etc. Make your own quality demos! 1MB RAM. A 4 disk pack for £10.00!

We have got thousands of demos available direct! Full details of all our demos are on our disk based catalogue. We have demos by Red Sector, Pure Metal Coders, Anarchy, Silents, Dexion, Coltes, Partners in Crime, Kefrens, Scoopex, Flash, Share and Enjoy and hundreds of other demo crews full details on our DiskCat!

LANGUAGES

PD211 - NorthC V1.3 compiler.
FF503 - PCQ pascal compiler.
FF470 - BCF Fortran 77 V1.3c.
FF519/520 - Oak Lisp. £6.00.
FF456/457 - CManual V2.0. A book about C on the Amiga with 100 example programs and source code. Indepth about all aspects of programming the Amiga in C. £6.00.

CLIP ART

The following 7 ClipIt! packs are all Black and White clip art spot illustrations suitable for any program with graphic capabilities. Each pack contains 5 disks. Pack 7 contains 3 disks.
CIA1 - Sports, flags, animals, Borders, Halloween, hands, zodiac etc. £12.50.
CIA2 - Men, women, A to Z, arrows, explosions, cartoons, pointing hands.£12.50.
CIA3 - Fruit, herbs, meat, arrows, special occassions, vegetables, kitchen utensils, cups and glasses, art deco and breakfasts. £12.50.
CIA4 - More Art Deco, Babies, Boys and Girls, humorous, A to Z, scrolls, calligraphic ornaments. £12.50.
CIA5 - Christmas from both the 19th and 20th century from father christmas to borbals, to christmas trees and borders.£12.50.
CIA6 - Fantastic and Mythological Creatures and Monsters : an excellent pack of creatures from all over the world.£12.50.
CIA7 - Flower Power pictures of the most popular flowers, arrangements, borders.£8.50.
SPECIAL OFFER! on ClipIt Volumes
Vols 1 to 4 - £45.00
Vols 5 to 7 - £30.00
Vols 1 to 7 - £70.00
A printed catalogue of all the images in volumes 1 to 7 is available for £3.50.



CATALOGUES

A concise printed catalogue is supplied with each order or is FREE if you send us a stamped S.A.E. A disk based catalogue showing full details of all our products costs only £1.00 or is FREE with any purchase of £10.00 or over! Subscribe! We produce a new catalogue 4 times a year, for only £3.50 a year you will recieve each quarterly issue of our printed and disk based catalogue direct.

NEWS FLASH

Issues 1 to 22 are now available direct from Public Dominator. Each issue of this premier disk magazine comes on 2 disks for only £5.50 filled with news and reviews of the latest products and events for the Amiga. Released every 6 weeks each issue has plenty of fully working software including Applications, Music, Utilities and Demos.

PROGRAMS

AMP7 - Personal Finance Pack: this pack contains 11 programs that will handle just about every aspect of your personal finances: Bank & BS acc, Loans & Mortgages. £8.50!
PD499 - AmiBase V3.76 database.
FF365 - Badger reminds you of any important events that are 'due'.
FF372 - Magnetic Pages V1.0 allows you to create a disk-based magazine.
FF387 - Boot in NTSC or PAL if you have 1MB Agnus chip installed.
FF425 - A-Gene V3.1 an excellent genealogy database. 1MB RAM.
FF427 - Chemesthetics V2.0 draws molecules using the calotte model.
FF429 - Scrub spins drive for 30 seconds for use with disk cleaner.
FF434 - Typing Tutor.
AMP1 - Home Business Pack : UEdit the excellent wordprocessor and spell checker, Visicalc the spreadsheet, RIM & JBase 2 brilliant databases. £8.50!
PD416 - NComm V1.9. ALL you need for communicating via the phone line.
PD59 - Ameteur Radio Disk: Starterm V3.0, Packet Terminal programs, Morse Code, Satellite Tracking and more.
AMP4 - Starter Utility Pack for the new Amiga user. File compressors, DirWork the friendly CLI Graphic interface, virus killers, an icon editor, a sector editor, a comms program for modem users & more, PLUS the word processor UEdit and the Database JBase! Only £8.50!
FF366 - PrintStudio V1.2 print any text file or picture & control printer.
TB6 - BioRhythms life cycles.
TB9 - FastMem allows you to toggle ON/OFF your expansion RAM. Also FuncLey allows you to assign text or commands to F1 to F10.
TB16 - CLI Wizard V1.2 is the mouse operated CLI replacement.
TB17 - Database Wizard V1.1 store upto 400 names and addresses.
TB30 - MyMenu create your own menu on WB. Icon Meister editor.
FF342 - IE the icon editor that allows you to create icons upto 640 x 200!
PD279 - ESA Utility Disk 1. This disk contains 3 dozen excellent utilities!
PD280 - The Champions Total Utils 1. Contains dozens of brill utils.
FF378 - MACH III V3.0 'all in one' util features your help screen, mouse accelerator, PopCLI, Screen Blanker, CLock, Alarm, Beeper & more.
PD300 - The Master Virus Killer V2.1 recognises 124 viri! A full list is available on DiskCat.
PD641 - SuperKillers anti virus disk recognises & destroys 146 viri!
TB31 - ShoWiz show any picture with or with out your own controlling script.
PD93 - ARP V1.3 the Amiga DOS Replacement Project.
FF228 - JazzBench v0.8 is a multitasking WorkBench replacement.
FF531 - DisDF stops drive clicking when no disk in drive.
FF251 - DiskSalv V1.42 more powerful than Disk Doctor this utility will attempt to salvage data from bad disks.
PD304 - MessyDOS handles MSDOS/ST formatted disks exactly the same way that Amiga disks. Plus DirWork.
FF243 - PassWord V1.21 you specify the password for your system security. Also Pcopy V2.0 the disk copier.
FF279 - MRBackup V3.3 for harddisks.
FF300 - TitleGen V1.6 create scrolling text any font for displays & video titles!
AMI22 - Printer Driver Generator this program will create a driver for your printer.

Fred Fish Collection

The Complete Fred Fish' is a printed catalogue giving indepth description of the contents of all 550 Fred Fish disks with an easy to use program index. Only £5.00! ***Special Offer!*** The entire Fred Fish collection disks 1 to 550 for £357.50! This price is fully inclusive - the floppy disks, labels, VAT & delivery! (Overseas add £75.00)

PD & Shareware Disk Prices

1-5 are £3.00 each
6-10 are £2.75 each
11-50 are £2.00 each.
All prices are fully inclusive.
All disks are Datapulse branded.
All overseas orders MUST add £2.75

Computer Supplies - Blank Disks etc.

Special Offer! All Blank disks come with a FREE 10 capacity disk box!
Datapulse Branded blank disks with labels:
10-£5.00, 25-£10.00, 50-£19.50, 100-£38.00, 200-£70.00.
Disk boxes: 10 cap. £1.00, 40/50 cap. £6.50, 80/100 cap. £9.00.
Disks and box: 10-£5.00, 50-£25.50 and 100-£46.50.
Disk labels: 100-£5.00. **Cleaning kit:** £3.00 **Mouse mat:** £3.00.

DEMO round-up

Amazing animations, toe-tapping tunes and gorgeous graphics all figure as Jonathan Maddock dotes over this month's demos

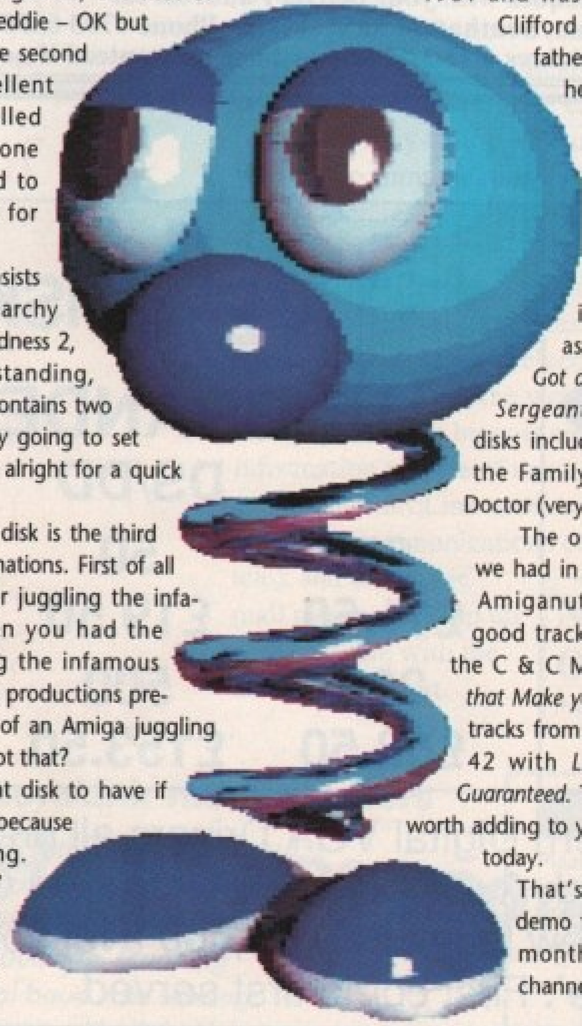
Yes I'm back and on a regular basis too! I'll be here every month showing you the new and best demos that are around at the moment. Lights, camera, action...

First this month are the Kefrens and their Guardian Dragon Demo which features some very nice graphics and stonking sounds plus all the usual starfields and scrolly messages. This is a very good demo indeed and well worth adding to your collection.

If you are interested in vectors, scrollers and bright colours then the No Reality demo from the Devils might just be the disk that you are looking for. This demo has so many RGB plasmas that you are likely to need a thorough eye test after watching it. It also has a really funky tune and contains loads of vectors, some of which are really well put together.

Voyage by The Fantasy Force is original, has great graphics and excellent sound. It takes place in a vector world in which you move around, and you can access different parts by disappearing into a large TV set! It is well implemented and I must applaud The Fantasy Force for an excellent effort.

The next program is a mixture of games, demos, music, animations and a few utilities. The games section consists of two games, the first of which is called Frantic Freddie – OK but nothing special – and the second is a rather excellent Boulderdash clone called Cave Runner which is one mega game guaranteed to keep you coming back for more and more.



The demo section consists of two programs by Anarchy entitled Madness and Madness 2, both of which are outstanding, while the music section contains two tunes which are not really going to set the house on fire but are alright for a quick listen.

The animation on the disk is the third in a series of juggler animations. First of all you had the man juggler juggling the infamous Amiga balls, then you had the woman juggler juggling the infamous Amiga balls and now Axle productions present the Juggia which is of an Amiga juggling it's own infamous balls. Got that?

Overall it's an excellent disk to have if you're strapped for cash because it has a bit of everything. The disk is called Pic 'n' Mix by Axle productions and you can obtain it from 17 Bit software. Fun Disk of the Month award goes to Strictly PD with their highly amusing Warzone and Sickness simulator. Warzone consists of several helicopters, jet fighters and guns all sampled and at your disposal at the touch of a function key. The sickness sim comes complete with sampled burps, coughs and farts.

At the beginning of the month PD music disks were a bit sparse but, as if by magic, we received a super-abundance of them from Digitz. There isn't enough space to mention all of the disks in detail but, I will give you something to whet your appetite.

Golden oldies

The disks are all from America and range from entertaining sketches to some great golden oldie tunes from the sixties. The best sketch disk features a brilliant take off of Star Trek entitled Star Drek and features the crew of the Starship Booby Prize. It is hilarious and lasts a lengthy five minutes. It certainly had the *Amiga Computing* team rolling around the office.

The best music disk is entitled *Baby Sittin' Boogie*. This unbelievable chart hit reached number 17 in 1961 and was performed by Buzz Clifford (ask your mother or father – they'll tell you who he was). The thing that really makes the song is consistent gurglings from a baby, hence the title *Baby Sittin' Boogie*.

The other disks include chart hits such as *I Talk to the Trees, I Got a Wife and No Time for Sergeants*. The other sketch disks include Golf game, Call in the Family and Rock and Roll Doctor (very funny indeed).

The only other music disk we had in this month was from Amiganuts, containing four good tracks of music including the C & C Music Factory's *Things that Make you go Hmmm* and two tracks from top pop group Level 42 with *Lessons in Love* and *Guaranteed*. This disk is more than worth adding to your collection – get it today.

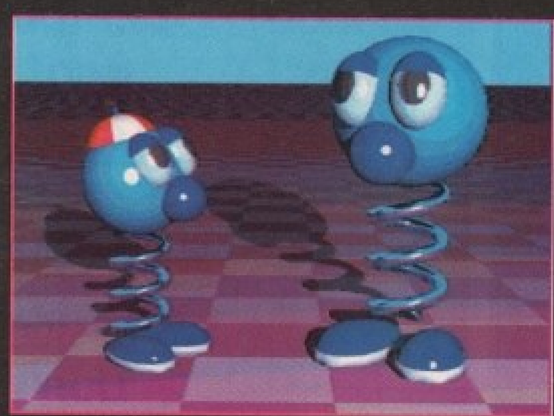
That's all for this month, demo fans. I'll be back next month, same time, same channel.



Oooh watch out out for that bee...



...aargghl it's stung me



Bouncing is more fun with the Boings

Animations

We have also had a whole truckload of animations in this month, and I've waded my way through them to sort out the best.

Lemmings – A Tale with a Moral, from NBS, shows a big lemming squashing a smaller lemming under his foot and then suffering the consequences of his actions. It's not nearly as good as the anti-lemming demo by Eric Schwartz, but is ideal for adding to your collection.

Digitz sent in an excellent animation. Entitled Tirreno, it features flying birds and fish! As it's 1 meg only, all you $^1/_2$ meg owners will have to get an upgrade to see it. It is very smooth and shows what the Amiga really can do.

The most anims this month were sent in by our friends Amiganuts, ranging from busy bees to spaceships to flying clocks. The full list is as follows: Busy Bee, Orbiters, Warpdrive, Trek, The Boings and last but not least Time Flies. All are brilliant and definitely worth adding to your collection.

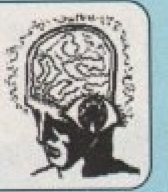

DRAMATIC
PRICE BREAKTHROUGH!
EuroLink
HIGH SPEED MODEM

NEURAL IMAGES PD

95p Per disk



NEURAL IMAGES PD
DEPT AC1
4 Flint Walk
HARTLEPOOL
Cleveland
TS26 0TE
TEL: (0429) 263508



95p Per disk

THE FIRST PD LIBRARY TO GIVE AWAY FREE PD!

UTILITIES

DISK LABEL DESIGNER
RSI DEMOMAKER*
RSI FONT EDITOR
RSI BOB EDITOR
RSI VECTOR EDITOR
PACMAN COPIER
HOT UTILS!
BIT TECH TOOLS #1 (200+)!
SPECTRUM EMULATOR
SPECTRUM DATADISK1
AMATEUR RADIO DISK
M.R. BACKUP (HD BACKUP)
SPRITE MASTER + IMAGE ED
T.V. GRAPHICS II (2)
CLERK ACCOUNTS
STOS TO AMOS
BOOTBLOCK UTILS (2)
CROSSDOSS V4.02A
XWORD CREATOR
A. GENE V3.125*
AMIBASE V3.76
MESSYSID
CHEQUE BOOK PROGRAM
HOME APPLICATIONS (2)
MEGAPACKER
ICON MAGIC
JAZZBENCH
STARCHART
FORTH PROGRAMMING DISK
KING JAMES BIBLE (4)
TETRA COPIER
SPEEDBENCH
PENNYWISE ACCOUNTS
MEGA FONT (2)
DRAW MAP
GRAPHIC INTERCHANGE
CELTIC DEMO CREATOR
HEADLINE FONTS
GHOSTWRITER*
HOUSEHOLD INVENTORY
FIX DISK
SCROLL TEXT EDITOR
FLETCHER FONT UTILS (2)
AMIGA VENTURE CREATOR

DEMOS

FRANCE BY SILENTS
VIC REEVES DEMO (2)
ALCATRAZ MEGADEMO III
THUNDERBIRDS MEGADEMO
RAF MEGADEMO (2)
PHENOMENA ENIGMA*
VIRTUAL WORLDS*
PSEUDO OPS MEGADEMO
CRIONICS NEVERWHERE
KGB MEGADEMO (2)
THE WALL (6) 2 DRIVES
GLOBAL TRASH BY SILENTS
VISION MEGADEMO
DARKNESS MEGADEMO II
FRAXION REVENGE
KEFRENS MEGADEMO VII (2)
BUDBRAIN MEGADEMO (2)
BUDBRAIN MEGADEMO II
PREDATORS MEGADEMO (2)
ELVIRA
SILENTS MEGADEMO

GAMES

MASTER OF THE TOWN
ATIC ATAC
PAC MAN
BATTLE PONG
POPEYE
GALACTIC FOOD FIGHT
DOWNHILL SKIING
PROPERTY MARKET
IMPERIUM ROMANIUM
SCUM HATERS
RAPHAEL'S REVENGE
MENTAL IMAGES GAMES #1
PSEUDO COP
LEGO TRIS
MEGABALL
QUIZ MASTER
T-RICHTER STAR TREK (2)
DYNAMITE DICK
ZEUS
SHAPES
SKATE TRIBE

ANIMATIONS

COYOTE STRIKES BACK*
VTOL CONTEST*
THE BOINGS*
MARS FLIGHT*
STAR TREK ANIMS
ANTI LEMINGS** (2)
REAL PINBALL*
HAPPY ANIMS
HORROR ANIMS
WALKER I** (2)
AT THE MOVIES*
MAGICIAN II*
FLEET MANOEUVRES*

MUSIC

UTAH SAINTS REMIX
MANIC RAVES
MOVE ANY MOUNTAIN
IT – WALKMAN MUSIC
808 STATE REMIX
FLASH TEAM MUSIC
ROGER RAMJET
FOUR SEASONS (2)
MUSIC DREAM 2
DEPECHE MODE REMIX
OP METALSTORM MUSIC
THE EQUALISER

SLIDESHOWS

NEW VIZ SLIDESHOW
WENDY JAMES SLIDESHOW
ALIEN BLIP MOVIE (2)
TERMINATOR II (2)
INVISIBLE WORLD
NIGHTBREED S/SHOW
DEMONS SLIDESHOW 3
WRESTLEMANIA V11 (2)
BEVERLY HILLS 90210

EDUCATION

LEARN AND PLAY (2)
TALKING COLOURING BOOK
POWER LOGO
GERMAN TUTOR

ALL ORDERS DESPATCHED THE SAME DAY WITH FREE NEWSLETTER

* DENOTES 1 MEG, ** DENOTES 2 MEG ETC
(#) DENOTES THE NUMBER OF DISKS
HUNDREDS MORE DISKS AVAILABLE!!!
CATALOGUE DISK 75p INCLUDING FREE GAME & FREE UPDATES WITH NEW ORDERS

MAKE CHEQUES/P.O'S PAYABLE TO: NEURAL IMAGES PD
PLEASE ADD 60p P&P ORDERING LESS THAN 11 DISKS. ORDER 11 OR MORE AND GET A FREE DISK & FREE P&P

POTTERIES PD

PO BOX 435, Longton, Stoke on Trent ST3 5XY
Tel: 0782 322532 Fax: 0782 322532

DEMOS

FF 200 Fish Tank demo, plus good not boing again demo
PPD 26 Fillet the Fish
PPD 25 Simpsons Demo
PPD 09 Pugs in Space
PPD 07 Magnetic Fields Demo (2 Disks)
PPD 16 Juggler Demo
PPD 19 Kylie Demo (2 Disks)
PPD 22 R.A.F. Mega Demo (2 Disks)
PPD 43 The Dating Game (3Mb 2 Disks)
PPD 45 Vaux Killer (2Mb 2 Disks)

SLIDE SHOWS

SS 01 Ray Trace Slide Show
SS 02 Magnetic Fields Ham Picture Show
SS 03 Canada and U.S.A. Slide Show
SS 10 Weird Science Demo (Back to the Future)
SS 11 Weird Science Demo (Birds of Prey)
SS 14 Nasa Picture Slide Show

GAMES

PPG 01 Moria + Docs
PPG 02 Crazy 8's, Dad, Ratmaze
PPG 05 Battleships Steinschlag (Tetris type game)
PPG 15 Legend of Faerghail (Demo version)
PPG 16 The Golden Fleece + Docs
PPG 17 The Holy Grail + Docs
PPG 19 Adventure Writer + Colossal Adventure
PPG 36 Twintris
PPG 22 Star Trek (3 Disks)
PPG 23 Dynamite Dick
PPG 25 Klondike, Chess, Train Set
PPG 34 Learn and Play I
PPG 35 Learn and Play II
PPG 31 Jumpy, Pharaoh, Mastermind + Docs
PPG 38 Mech Fight
PPG 39 Ami Omega

Prices

1-10 Disks £2.25
11-20 Disks £2.00
21+ Disks .... ring for price

All Prices are for UK (Sterling)
For Europe add 25 pence

Deja Vu Licenseware

1 Disk Programs £3.50
2 Disk Programs £5.50
Disk Catalogue........ £1.00

CLIP ART

CA 01 Cars, Fonts, Faces, Animals
CA 02 Burgers, Hot Dog, People, Rabbits, Penguins
CA 03 Maps, Headlines, Borders, Halloween, Valentines
CA 04 People, Cowboys, Witches, Micky, Cupid
CA 05 Food, Transport, Love Hearts
CA 06 Food, Drink, Cooking Utensils
CA 07 Fruit, Vegetables, Desserts
CA 08 Cartoon Characters, Fancy Fonts
CA 09 Christmas Greetings and Novelties

UTILITIES

U 01 Fixdisk, Diskx, SID
U 03 Wizard, Make Nifty, Powerpacker 2.3
U 04 Diskzap, Dir Util, Disk Mapper
U 05 Hyperbase, Listmaker, Calendar Factory
U 06 Mega WB, Icon Fun, Amiga Punt
U 31 Text Plus (Word Processor)
U 32 Flexi Base (Data Base)
U 12 Label Print, Disktalk, Turbo Manager (all with docs)

COMMS

U 02 NComm 1.9, Handshake, Aterm, VT100
NComm 1.92
JRComm 1.02

DEJA VU LICENSEWARE

LPD 01 Colouring Book by Trevor Prince
LPD 02 Arc Angel's Maths
LPD 04 Thingamajig by Len Tucker
LPD 05 Jungle Bungle by Len Tucker
LPD 06 Pukadu & Sprites Converted by Peter Hickman
LPD 07 4-Way Lynx by Andreas Andreou (req. 1 Meg)
LPD 08 Work & Play by Len Tucker
LPD 10 The Word Factory by Delwyn Farr
LPD 11 Go-Getter by Ronnie Simpson
LPD 12 Hypnotic Lands by Lindasoft (Italy)
LPD 13 Jigmania by Len Tucker
LPD 14 Play it Safe by Len Tucker
LPD 15 Arc Angels Shapes (req. 1 Meg)
LPD 16 Reversi II by Dominic Ramsey (req. 1 Meg)
LPD 17 Dogfight II by Shadow Software
LPD 18 Touchstones by Spence Davies (req. 1 Meg)
LPD 19 X-IT-50 by Ronnie Simpson
LPD 20 Wordy by D. Pearl (Req 1 Meg)
LPD 21 Quingo by M.J. Fascione
LPD 23 ESP
LPD 24 The Shining Way Of Kung Fu (2 disks)
LPD 26 CYAD

Feel free to call for help with any software that we have supplied
We also stock Fish Disks 1-540 and T.B.A.G. Disks 1-54
Please make cheques and postal orders payable to Potteries PD

69p SPECIAL OFFER AMIGA PD 69p

YES IT IS TRUE PD FOR JUST 69p – OFFER ENDS 31/12/91
HERE IS A SMALL SELECTION FROM OUR VAST RANGE
OVERSEAS ORDERS ADD 25p A DISK FOR EUROPE 60p R.O.W.

*= 1MB
(2)= No of disks

ENQUIRIES TEL:
0424 712349

DEMOS

D113 Silents Scroller
D115 Utopia Cartoon Slides
D117 Bunsen Burner
D119 The Link Megademo
D122 Ghost Pool
D124 Scoopex Seven Sins
D126 Disney Slideshow
D128 Sleeping Bag Demo
D130 System 5 Demo
D132 Alpha Flight Megademo 2
D134 Share And Enjoy 46
D136 Thames TV Demo
D138 Vision Megademo
D140 Fast Cars Slideshow
D142 Mobed
D145 Kefrens Wall Demo
D147 Beast 2 Preview
D149 Treacl
D151 Share and Enjoy 47
D153 Simpsons Mini Mega (XXX)
D155 Glass World Animation*
D157 Congaman Animation
D160 Anarchy Scratch Pack 39
D162 Bugs Bunny Anim*
D164 Smurf + Cokeman Anims*
D234 Virtual World

UTILITIES

P02 A68K Assembler
P04 North C
U001 Jazzbench
U004 Visicalc Spreadsheet
U006 Intro Maker
U008 Sidney And Friends
U011 XLS Disk 1
U013 Clip Art
U015 The Magicians Utilities
U017 Steel Moon Utilities
U019 CADV
U021 Super C Disk
U024 Red Devil Utils 4
U026 Amibase V3.76
U031 Bootbench
U033 C-Light 1+2
U035 System Checker
U037 Tetra Copier
U053 Text Plus Wordprocessor
U056 Wordwright Wordprocessor
U058 Running Man Update
U060 Mag Media Disk Utilities
U100 RSI Demo Maker
U101 RSI Demo Maker Extras
U104 RSI Vector Maker
U067 ICPUG Printer Utilities
U069 XLS Best Of PD 3

GAMES

G004 Breakout Construction Set
G006 Star Trek (2)
G008 Drip*
G010 Quiz Master 2
G012 Popeye
G014 Tennis*
G016 Flaschbier
G018 Treasure Hunt
G020 Wet Beaver Games
G022 Workbench Games And Hacks
G024 PD Games Compilation
G026 Movie Games
G028 Eatmine
G030 Return To Earth
G032 Klondike
G034 Trek Trivia
G036 Pipeline
G019 Battleforce
G021 Arcade Games
G023 Star Trek The Next Gen.
G045 Lamatron
G027 Hack
G029 PDOM Games
G031 BIP
G033 Stoneage
G035 Jeopardy
G041 Frantic Freddy

DISK CATALOGUE 50p

CONTAINS DETAILS OF ALL OUR DISKS AND IS UPDATED FREELY WITH EVERY ORDER. INCLUDES 2 FREE GAMES + A DEMO

We also stock APDL, Amicus, T-Bag and Fred Fish Disks.

All orders dispatched within 24 hours.

Buy now while the price is so low.

Please add 50p postage + packing to all orders.

PLEASE MAKE ALL CHEQUES AND POSTAL ORDERS TO S.P.D.

S.P.D. DEPT AC, 62 MANOR ROAD, HASTINGS, E.SUSSEX, TN34 3LJ

AMIGANUTS UNITED

169, DALE VALLEY ROAD, HOLLYBROOK, SOUTHAMPTON SO1 6QX.

FAX (ONLY) 0703 785680 Mail Order Only

WORLDWIDE DISTRIBUTORS OF THE DEDICATED AMIGA CODERS CLUB DISKS
EUROPEAN DISTRIBUTORS FOR THE T.BAG DISKS NUMBERS 1 TO 58 NOW AVAILABLE

IMPORTANT NOTICE!

All advertised programs will run on the A500 plus. (V2 Chips) Programs that will run on the V2 chip are also denoted in our catalogue disk. If making an enquiry, please enclose an S.A.E. - Fax us on 0703 785680

LOOK — LOOK

INTO MUSIC? THEN THE (1 Mb) EIGHT CHANNEL MIDI COMPATIBLE OctaMED V2 IS FOR YOU

It now contains full notation, including a notation editor with notation printing 5-7 channel modes for high quality, non-CPU stressing audio/split channels. Sixteen track display for Midi use and a host of other new Midi features. The final release of Teijo's PD 4 Channel Med V3.2 is encoded into the program. Price is £20 European countries, (£25 R.O.W.), See ordering details below.

MASTER VIRUS KILLER 2.2 IS HERE: It recognises the dreaded Sha validator virus £5.00

BUG-BASH: Kill the bugs, clean up the trash in the garden. A great kids game £3.50

NUCLEUS: An excellent underpriced arcade shoot them up by Mutation Software £3.50

877: 1 ACROSS 2 DOWN. A fully fledged crossword program, (Data Disk No:1 is supplied free!) for only £5.00. Data Disks 2, 3, 4 and 5 are now ready at .... £2.50 each

1068: MOD PROCESSOR V1.92. Make Picture and/or Music progs, adjust pic height/width. This version will load the new 8 channel Octamed Music and is excellent! £3.50

1161: INTUIMENU V3. The easy way to execute your programs. Treat yourself! £5.00

1199: AMNUTS text/video displayer. A brilliant new way to display your text! There is not much you can't do with this one. It displays different fonts in the size you choose, you can control colours, presentation of the display it recognises powerpacked files, you can print all or just the screen etc £8.00

1201: The delightfully crazy and fun hotdog game. Can you get through? £4.00

INTO CODING? – WANT TO LEARN? The Amiga Coders Club is for you! If you want to learn assembly, using Devpac, (or our own new Acc Special Assembler Disk), this is the Club for you! Each issue is £3.00. Introductory offer issue Acc 1 to 4 only £2.00

THE AMIGA CODERS CLUB DISKS are packed with source, hints, tips, advice from many of the well known coders that are on the Amiga scene today. Latest issue number 18.

ACC 12 IS OUR BIRTHDAY ISSUE, it is a 2 disk set, and therefore the price is £6.00
Important Notice: ACC disk prices will rise to £4.00 each, as of January, 1992

AMIGA CODERS CLUB SPECIAL! Here is a low priced Assembler Package for all you Coders out there in Amigaland (instructions on disk). Received good review £5.00

A note to all customers, please remember to add post/packing. (See below)

SUBSCRIBE SUBSCRIBE SUBSCRIBE SUBSCRIBE SUBSCRIBE

If you would like to get hold of the Amiga Coders Club Disks as soon as they are published, why not send £33.00 and ask to go on the ACC Mailing List now? We will send you each issue as soon as it's ready, (applies to issue 14 onwards). Please note that issues released prior to ACC 14 must be purchased separately.

Important notice! Subscriptions to ACC will rise to £44.00 as of Jan 6th 1992 (Subscrptions from outside the EC, please add £6.00 to cover the extra postage)

Mike Simpson's A-Gene V3.29 (Full two disk version) available directly from us. Price: Europe £15.00; Rest of World £20.00. + Postage. The best Geneology Prog.

Amibase Professional III. The additions to this new two disk version Database are excellent, (see reviews). Also contains a converter to alter your files saved with previous version of this program. Only £10.00 EC or £15.00 R of W. (Remember the postage).

Words V3. By ACC Editor Mark Meany. If you want to enter those anagram contests, see how many words that a given phrase will make, this is the one for you! It has a massive glossary of over 50,000 words!! An excellent program. Only £15.00

All programs above are copyrighted and not available from any other library.
We would like to wish all our customers a Merry Christmas and Happy New Year
Seasons greetings to : Mike (Diamond) - Paul (N.B.S.) - Darrell (Pacific PD)

521:The famous Star Trek Game by Tobias Richter. A must for all Amy owners. £4.00

581:SID. The CLI replacement Prog. £2.00. (Coming soon SID V2, The Ultimate Utility)

1026:The Star Trek megademo by Tobias Richter. Anims/Music/Pics. 2 Disks. £4.00

1031:Spacepoker-Running-Snakepit. Three nice games that will entertain you. £2.00

1156:Mozart's Four Horn Concerto. A two disk music workshop production. £4.00

1158:Amicash V1. This is an excellent bank records program. Author K.Grant. £2.00

1159:Pom Pom Gunner. An enjoyable shoot them down game from U.S.A.(NTSC) . £2.00

1178:Fantastic Satellite Pictures from NASA. (Excellent reviews) 2 Disks. £4.00

1179:More Satellite Pics, as above, but these contain pictures from Neptune. £4.00

1205:Mozarts Four Horn Concerto. Presented by the Desktop Music Workshop £2.00

You are advised not to purchase these programs if you only have half meg fitted. If you have the new A500 Plus it has sufficient memory for the above programs.

Please add the following to your order to cover return post and packing:-
All EC Countries, (Inc U.K.),add 50p - Non EC £1.00 - Rest of world add £2.00

Payment must be made in pounds sterling only, orders from overseas customers must be by bank Draught/Eurocheque etc. (We do not accept credit card orders).
The new 1992 catalogue is available now!! £2.00 (This includes return postage)

Presenting a masterpiece

Paul Austin, *AC's* very own Mr Multimedia, looks at the ultimate way to put your ideas into action – with Presentation Master

If you're a regular reader it's almost certain you're well versed in the Amiga's huge array of graphic features. In recent months these features have been taken to the extreme thanks to packages such as Show Maker, Scala and of course the ever-growing band of 24-bit boards.

To compete in such illustrious company, any new package has to be very special indeed. On that score Presentation Master has nothing to worry about. Just like its contemporaries it has its own array of features which make it distinct from the rest of the field.

Unlike Scala and Show Maker, Presentation Master doesn't concern itself with the video graphic aspect of the machine, but rather sticks to its primary mission – the presentation of information.

Now before we delve into the ins and outs of the package it's worth defining just what Presentation Master is actually designed for, as it's very easy to lose the point, especially when you start twiddling with its huge array of options.

Presentation Master, as the name suggests, is at its best when used as part of a presentation. If you're a corporate high flyer who wants to impress the boss with a multi-level introduction to your latest brainchild, it's perfect.

To achieve the ideal presentation, Presentation Master allows you to import scanned or digitised images, produce countless graphs of almost infinite variety, design logos and artwork in a PostScript-quality paint package, run animations and load Ascii text, which can then be stylised and added to the action.

Once the component pages are ready they can be included in the show via the slide sorter which allows you to arrange the various pages in the sequence of you choice.

Simply displaying one slide after another isn't much to shout about, so to enhance the action Presentation Master uses a hierarchical design which defines various pages as parents and other connected pages as children which can then only be accessed from the parent if and when required.

This system obviously lends itself to a stylised form of Hypertext. Let's say you're presenting a plan for a real estate development. Your opening slide could show a plan of the building itself. As the presentation progresses, either hidden or visible buttons within the primary image could trigger a whole series of slides that relate to that particular aspect of the development.

When a particular series of slides complete their display the presentation can automatically return to any point ready to either continue with the main thrust or diversify again onto another related subject.

Now if you've ever been the lucky soul chosen to produce a presentation the thought of all this jumping around probably sounds like an ideal way of turning a great idea into an unmitigated disaster.

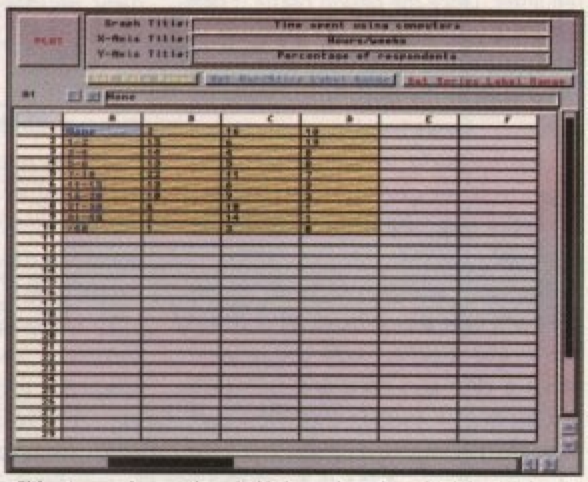
To combat the confusion Presentation Master offers a speaker's notes option which allows the user to append relevant information to each slide in the presentation. This can then be read prior to the presentation or printed beneath the image of the page.

Text talk

Obviously these notes don't need to be restricted to the presenter, and in fact there's nothing to stop you producing accompanying hard copy to enhance the show. Because of Presentation Master's PostScript potential, paper presentation can be almost as impressive as the onscreen alternative.

Perhaps the first task in any presentation is to add your literal genius to the action. This can be done in two ways, either via the good old fashioned manual method of bashing in the copy via the keyboard, or alternatively by importing Ascii from your favourite wordprocessor. The latter is perhaps the best option as Presentation Master doesn't support any spell checking options as yet.

OK, if we assume that we have the necessary text, the next job is to glamorise your masterpiece with the addition of drop shadows, bullets, outlines or perhaps one of the numerous fonts packed onto the ten disks which make up the system. As you'll soon notice, Presentation Master is almost as much of a DTP package as it is a presentation system. As a result some of the terminology used leans heavily towards publishing.

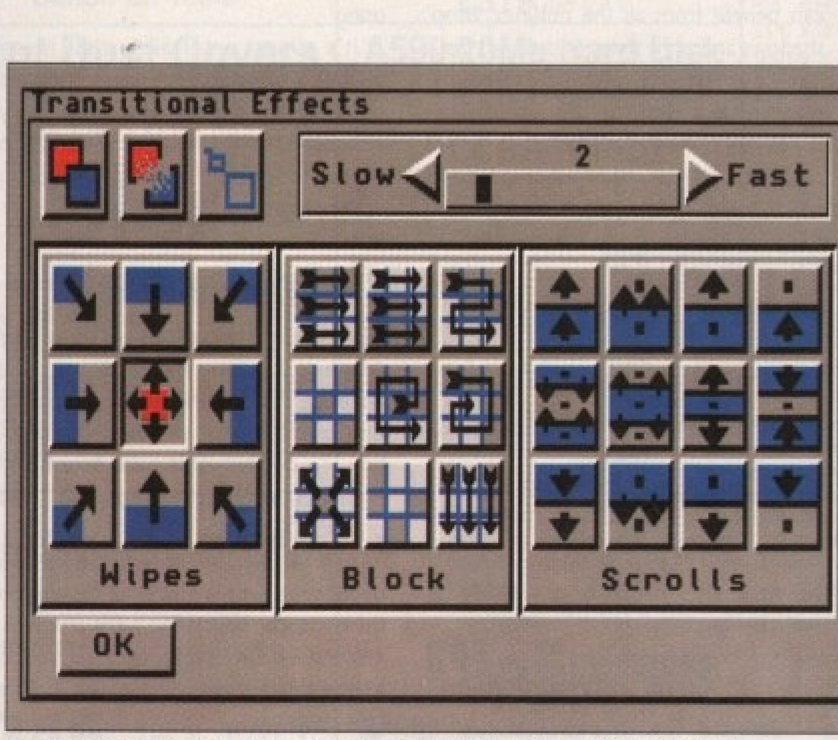


Either type or import that vital information – it couldn't be simpler

Perhaps the most noticeable reference within the text handling department is that of bullets.

A bullet is basically a small logo which denotes a point of interest within the copy. So, for example, headings may have a star before the line to attract attention and subheadings might have a hash or perhaps nothing at all. Like the text itself the bullets can have drop shadow added, outlines, definable colours and a whole array of font sizes and styles.

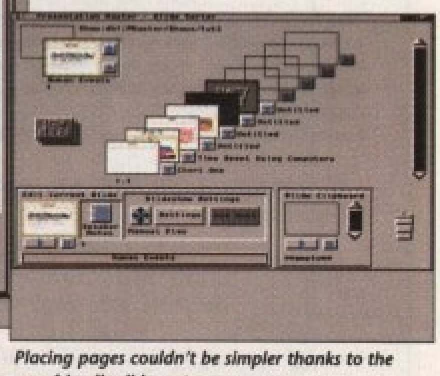
If the numerous fonts, bullet styles and enhancements needed to be added each time a new line was introduced, ➤



Styling made simple – just a few minute's tinkering and you're on the way to a masterpiece



A fine example of the paint package in action. Perspective and bending bring logos to life


Placing pages couldn't be simpler thanks to the ever-friendly slide sorter

the whole process would be painfully slow. To avoid this, three levels of indentation can be assigned to each layer of the text to complete an overall style tag. These various styles can then be invoked by using the Tab key. No tabulation and the text could appear as a headline, one tab for standard text, and perhaps two tabs for cross headings.

Each of these could, of course, have its own font and additional styling, all predefined via the text settings requester. Once the design of the text is complete you can turn your attention to the actual layout of the page itself.

To assist in the layout stage there's a selection of text handling tools which will automatically transforms text from upper to lower case and can capitalise the entire text, or just the first letter of any word.

The usual selection of bold, underlined and italic are on hand, all of which can be added either as the text is typed or via a click and drag process which will produce a blanket transition over large areas of imported copy.

Title panel

Up until now I've mentioned the text layer but this is only part of the overall text page. Above the main text sits a heading and subheading panel which is set on its own plinth just like the larger window below.

On to this separate plinth you can place anything you want, but it's perhaps the perfect spot for the corporate slogan or maybe the title for your latest brainchild.

Like all the available layers you're not just limited to the initial conditions imposed by the page style you first choose. Any layer can have additional graphics, text or graphs added as required.

The word layer has already been liberally spattered throughout the article but without any real clarification as to what it means. In short, Presentation Master sees a layer as a template onto which it can compile various types of visual information.

Whenever you highlight a particular layer, its relevant tool kit appears ready for editing. Once the necessary changes are complete a simple selection from the pull downs brings up the next new tool kit and highlights the layer in question. When all the editing is complete, it's back to the slide sorter to place that particular page in the correct point in the show.

As I mentioned earlier the DTP feel is very strong and nowhere is it stronger than the graphic design section of the package. Producing any graphic layer immediately confirms an extra special paint package which is on a par with such illustrious names a Pro Draw.

Bliss to use

One of its most impressive attributes is the ability to work with Presentation Master Polyfonts which, like the additional standard fonts, come as part of the package.

To be honest it's hard to stay objective after a few minutes with these little beauties – they're quite simply bliss to use. They're a rather strange format which seem to be somewhere between Compugraphic and WorkBench 2.0's scalable fonts.

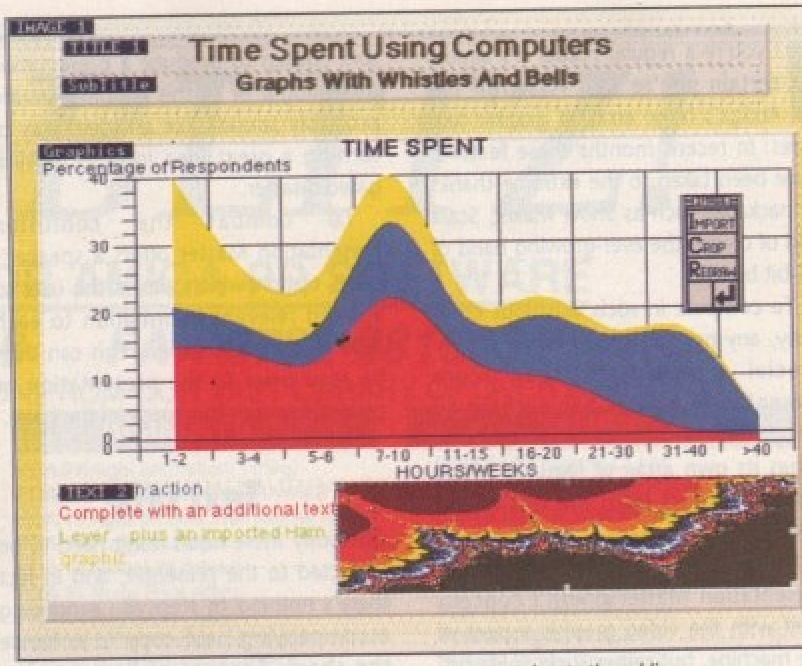
Whatever the format, it's the results that count and it's fair to say that they can be stunning. Apart from simply resizing the font it's still possible to edit each letter individually by selecting any one of the numerous points which appear on its surface when the latter is selected.

These points can then be clicked and dragged into any position. To make things even easier, small levers appear which can be pushed and pulled to produce perfect curves.

The afore-mentioned point editing process applies to all objects within the graphic window so there shouldn't be any need for the sometimes tricky process of drawing via the rodent.

Like the normal text fonts, Polyfonts can benefit from all the outlines, drop shadows and print styles of their less flexible counterparts, plus an extremely pleasant extrusion option which produces very convincing 3D effects.

Objects can be separated or grouped, and if necessary manipulated en masse.



A closer look at the wipes and fades that introduce your masterpiece to the public

Producing an undulating curve of text complete with a flowing graphic to complement the sentence would be simplicity itself.

Simply group all the components together and then distort them as a whole. When an object is defined it can be extruded, curved, or have perspective applied as required. The only real limit is your imagination.

Among these glamorous effects come the usual array of painting tools which any Dpaint fan will know and love. Aside from the bending, distortion and perspective comes another requester literally fit to burst with a series of object arrangement tools that perform all manner of miraculous placement and morphing tricks between any two selected objects within the image.

To be honest the graphic facilities of Presentation Master could be well worth two pages all of their own but I'm afraid we'll have to keep things brief. Rest assured that it will be a very long time before you run out of ideas with what is one of the best PostScript-compatible paint packages I've had the pleasure of using.

It's almost a certainty that many images appearing in Amiga produced publications will have their roots firmly entrenched in the heart of Presentation Master thanks to this particular section of the program.

Data display

Now that we have the text and the graphics it's time to add those vital statistics that will hopefully clinch the deal or secure that well-earned promotion. To do this you'll need to employ Presentation Master's graph and chart producing talents.

Activating the chart and graph options is a simple matter of clicking on the chart icon within the paint program. This immediately brings up Presentation Master's data sheet which at first looks a little daunting.

Fortunately the accompanying manual is excellent on all aspects of the program with the chapter on graphs and charts being no exception.

Data can be imported or typed in a similar manner to that of text entry. Once the data is in place and the parameters set all that's left is to hit the Plot button and watch your figures come to life in glorious techno-colour.

Like the paint package, the charts and graphs section could eat away most of the mag if explained in full. Suffice to say that the display formats include horizontal and vertical bar graphs and line, area, spline and pie graphs. All graphs and charts can appear in either 2D or 3D.

Most of these styles can be applied directly to any data within the sheet by simply selecting a new display format from the Chart tool kit. This instantly transforms the information from one display format to the next in a matter of seconds.

If you're really out to impress, multi-series charts can be produced with individual parts of your database standing side by side to provide the best possible overview of the subject in question.

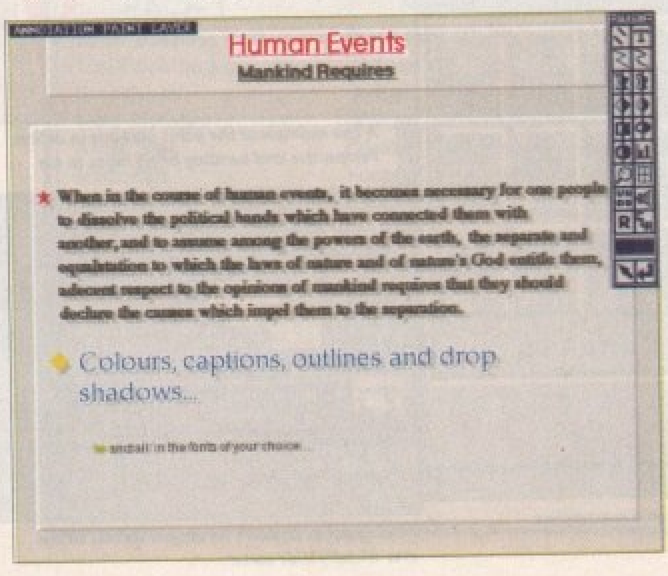
And finally...

When all the elements are complete each page can have any one of a wide variety of wipes and fades added with either manual or timed pauses between pages. All in all it's hard to find fault with what is a seemingly faultless execution of an original idea.

I only wish I had a few more pages to spend on what is one of the best power programs yet to appear on the machine. If you're interested it's worth remembering that a hard drive is essential, and anything less than 2 meg of memory would be suicide.

The package reviewed was a gamma test version. Pricing and supply details are as yet unknown.

For further details contact Oxxi, inc. Tel: (213) 427 1227 Fax: (213) 427 0971. Both numbers require USA dialling codes.



The changing face of fonts and effects thanks to the text styling requester



Commodore

CDTV™

INTERACTIVE MULTIMEDIA

THE WORLD's FIRST MULTIMEDIA SYSTEM FOR THE HOME

Are you bored with the TV? Do you yearn for something a little more interesting, something which stimulates the old grey matter and indulges your desire to be entertained? Enter the Commodore CDTV, the world's first advanced learning and entertainment system which plugs straight into your television. Based upon the familiar compact disc player, the CDTV offers a rich set of information and communication capabilities. It brings together pictures, words and sounds in a new format, joining them together in a fascinating world of audio visual challenge and experience.

The multimedia CDTV player combines a professional CD audio system, advanced computer technology and infra red remote control, to offer a wide variety of interactive applications. These range from games, music, gardening and personal health, to educational discs for any level. In addition, CDTV provides high quality audio reproduction for existing music CDs. CDTV is very easy to use and gives you total control over what you see and hear, offering you the chance to learn new skills and discover hidden talents

A New Age In Home Entertainment And Education

CDTV finds its place alongside the TV and Hi-Fi system in the home. It is similar in appearance to existing video and CD players and, with its infra red remote control, is just as simple to operate. But that's just the beginning. CDTV transforms television from a passive to an active medium. The vast storage capabilities of the CD make it an ideal mass information provider, capable of storing and displaying a combination of colour pictures, text, graphics, voice and stereo music of the highest quality. CDTV offers a new realm of audio and visual experience for everyone.

ENTERTAINMENT

FOR EDUCATION

EDUCATION

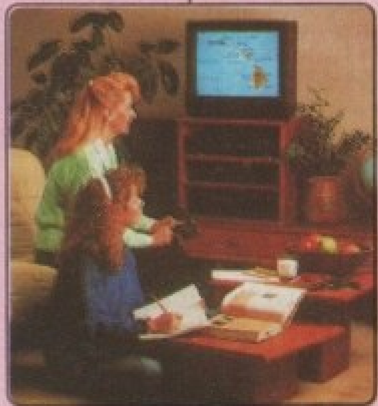
For young children learning to read can be an adventure! In the title Cinderella, for example, they can use the remote control unit to click on words and pictures to hear pronunciations, syllables, definitions and second language translations. And learning about the world can be fun too. The World Vista Atlas provides detailed information in words and pictures on the history, architecture, language and geography of each country. This can be cross referenced to compare with details of other countries.

REFERENCE

FOR REFERENCE

MUSIC

For the classical music buff it is possible not only to hear Beethoven's Fifth Symphony, but to see the orchestra perform, follow the score and read about the composer's life and times. The Timetable of Science and Innovation walks you through 6,250 key events in scientific history. It employs animated maps to show where every event occurred and a visual lift-off from the earth's surface. Key events are accompanied by audio presentations with graphics and sound recordings from the archives of the world's great museums. Browse quickly or examine an exhibit in detail.



FOR FUN

There is a wide range of entertainment titles available for every age-group. Sherlock Holmes, Consulting Detective, includes a video and audio tour of Victorian London. Players can choose suspects for Holmes and Watson to interrogate and can search issues of the London Times for clues. A CDTV disc's graphics capabilities take action and simulation games to a new level. Falcon makes you a pilot of an F-16 fighter and has accurate simulations of weapons systems, cockpit controls and flight characteristics allowing you to zoom like the ultimate stunt pilot with extraordinary realism.

FOR COLLEGES & BUSINESS

When Toyota, decided to open a car assembly plant in Derby, Derbyshire County Council commissioned the production of 'Japan World', a CDTV title which allows students to explore and experience the Japanese language, lifestyle and culture. It also provides a valuable insight to businessmen with information on Japanese business philosophy and negotiation protocol.

PRODUCTIVITY

FOR HOBBIES

PERIODICALS

CDTV can also enhance your personal interests. The Gardenfax Series is designed for use by novice or expert and provides hundreds of full colour illustrations, as well as information on planting and requirements for care. New Basics Cookbook provides full colour illustrations of recipes, 'talks' to you to offer tips as you cook and automatically substitutes recipes with a click of the remote control.

ARTS & LEISURE

CDTV offers a seemingly endless range of possibilities for learning, entertainment and enrichment for everyone whether in the home, the classroom or in business.

£499

INCLUDING VAT & DELIVERY - Order ref: CCD 1000

FREE TITLES!

With every CDTV from Silica, you will receive:

WELCOME - A GUIDE TO CDTV

The 'Welcome' disc replaces a weighty printed manual with colourful and exciting animation, sound, voices and text.

LEMMINGS — WORTH: £34.99

Up to 100 loveable Lemmings drop in to over 100 screens full of danger in this best selling arcade classic.

HUTCHINSON'S ENCYCLOPEDIA — WORTH: £49.99

The first British multi-media encyclopedia. It features over 1.8 million words, 700 biographies, 2000 pictures, 150 maps from ITN and 200 audio samples from the BBC sound archives.

PLUS! FREE HOLIDAY HOTEL ACCOMMODATION

Every CDTV from Silica comes with a FREE 72 page colour brochure with accommodation vouchers. These vouchers entitle 2 people to up to 16 nights FREE hotel accommodation (other options allow 4 people to stay up to 6 nights). There are also accommodation offers on hotels in London and France.

SILICA SYSTEMS OFFER YOU

- *FREE OVERNIGHT DELIVERY:* On all CDTV players shipped in the UK mainland.
- *TECHNICAL SUPPORT HELPLINE:* Team of technical experts at your service.
- *PRICE MATCH:* We normally match competitors on a "Same product - Same price" basis.
- *ESTABLISHED 12 YEARS:* Proven track record in sales and service.
- *BUSINESS + EDUCATION + GOVERNMENT:* Volume discounts available for large orders.
- *SHOWROOMS:* Demonstration and training facilities at our London & Sidcup branches.
- *THE FULL STOCK RANGE:* All of your requirements from one supplier.
- *FREE CATALOGUES:* Will be mailed to you with offers and product details.
- *PAYMENT:* By cash, cheque, all major credit cards, or extended payment plan.

RETURN THE COUPON FOR A FULL COLOUR CDTV CATALOGUE

MAIL ORDER HOTLINE 081-309 1111

SILICA SYSTEMS

MAIL ORDER:	1-4 The Mews, Hatherley Rd, Sidcup, Kent, DA14 4DX		**Tel: 081-309 1111**
Order Lines Open:	Mon-Sat 9.00am-6.00pm	No Late Night Opening	Fax No: 081-308 0608
LONDON SHOP:	52 Tottenham Court Road, London, W1P 0BA		**Tel: 071-580 4000**
Opening Hours:	Mon-Sat 9.30am-6.00pm	No Late Night Opening	Fax No: 071-323 4737
LONDON SHOP:	Selfridges (1st Floor), Oxford Street, London, W1A 1AB		**Tel: 071-629 1234**
Opening Hours:	Mon-Sat 9.30am-6.00pm	Late Night: Thursday until 8pm	Extension: 3914
SIDCUP SHOP:	1-4 The Mews, Hatherley Rd, Sidcup, Kent, DA14 4DX		**Tel: 081-302 8811**
Opening Hours:	Mon-Sat 9.00am-5.30pm	Late Night: Friday until 7pm	Fax No: 081-309 0017

To: Silica Systems, Dept AMCOM-192-71, 1-4 The Mews, Hatherley Rd, Sidcup, Kent, DA14 4DX

PLEASE SEND ME A CDTV CATALOGUE

Mr/Mrs/Ms: .... Initials: .... Surname: ....

Address: ....

....

.... Postcode: ....

Tel (Home): .... Tel (Work): ....

Company Name (if applicable): ....

Which computer(s), if any, do you own? 71

E&OE - Advertised prices and specifications may change - Please return the coupon for the latest information.

17-BIT ARE A FORCE OF ONE!!!!

17 BIT SOFTWARE Est. 1988

AMIGA PUBLIC DOMAIN PRESENTED BY

17-BIT SOFTWARE *"THAT BIT BETTER THAN THE REST!!!"*

Listed below is just a small selection of our full range, we pride ourselves on being the cheapest most well established PD supplier in the land with a collection of PD disks that spans over 3 years, we have the lot in any field you can care to mention. So ring our friendly knowledgeable telephone staff and get the right PUBLIC DOMAIN PROGRAMS AT THE RIGHT PRICE. ANYBODY CHARGING MORE THAN£1 A DISK IS BASICALLY RIPPING YOU OFF!!!!!!

£1 A DISK

R.S.I. DEMO MAKER PACK ONLY £4

FONT, BOB, AND VECTOR EDITORS, THE PROGRAM DISK AND A UTILITY DISK TO HELP YOU GET MOST OUT OF IT DISKS ARE 1252, 1390, 1391, 1392, AND 897.........

CHRISTMAS MUSIC DISK AVAILABLE NOW.... ONLY £1.50

HOT NEW ADDITIONS

1342 CASTLE ADVENTURE
1343 ICON MANIA (UTIL)
1344 NORTH C 1.3 DISK 1
1345 NORTH C 1.3 DISK 2
1346 WIERD SCIENCE SLIDESHOW
1347 HOME UTILS
1348 JR TOLKEIN SLIDESHOW
1349 IBM EMULATOR
1350 POM POM GUNNER (GAME)
1351 WIZZYS QUEST (GAME)
1352 ANARCHY DIGITAL INOVATION(VERY GOOD DEMO)
1353 MED V 3,11B(MUSIC UTIL)
1354 RETURN TO EARTH (GAME)
1355 DISK OPTIMISER (GREAT)
1356 WINDOWS BENCH
1357 CD PLAYER MUSIC DISK
1358 LABELBASE V3.0 (DATA)
1359 HOT UTILS!!!!!
1360 WENDY JAMES SLIDESHOW
1361 FRACTAL MOUNTAINS DISK1
1362 FRACTAL MOUNTAINS DISK2
1363 PICTURE PACKER (UTIL)
1364 NEW WAVE MUSIC DISK
1365 ASSORTED GAMES
1366 RSI DEMO MAKER UTILS
1367 CARD GAMES (LOTS OF EM!)
1368 INTRO'S 62 HOT STUFF
1369 OPTI UTILS 2 (BUY BUY!!!!)
1370 SAMPLES DISK
1371 HARDCORE MUSIC DISK 3
1372 VIRUS KILLERS (OH! ERR!)
1373 LLAMATRON + OTHERS
1374 IRIS ANIM (1 MEG)
1375 CRYSTAL SYMPHONIS MUSIC DISK (VERY GOOD)
1376 BRONOS MUSIC BOX 3
1377 DISK 2 OF ABOVE (FAB)
1378 TETRIS 2 (GAME)
1379 FIDDLE WITH FUN (UTILS)
1380 MOVE ANY MOUNTAIN
1381 MUSIC DISK
1382 WORDSWORTH DEMO
1383 WORKSTATION DISK 1
1384 WORKSTATION DISK 2
1385 QUICK BENCH(RAM RES)
1386 NEW VIZ SLIDESHOW
1387 ALIEN BREED SLIDESHOW)
1388 MESSYDOS,64 EM,STEM.
1389 DISK LABEL DESIGNER
1390 RSI DEMO MAKER FONT ED
1391 BOB EDITOR FOR ABOVE
1392 VECTOR EDITOR FOR ABOVE
1393 LAND BUILDER (LIKE VISTA)
1394 PROTRAKER V1.2
1395 PICK AND MIX
1396 DESK BENCH DISK 1

DESIGNER WB PACK

5 DISKS THAT ALL HAVE A DIFFERENT APPROACH TO THE WAY YOUR WORKBENCH IS PRESENTED, CUSTOMIZE YOUR OWN WB TO THE ENVIRONMENT THAT SUITS YOU!!!!!!!!
THE DISKS ARE
1356-WINDOWS BENCH
1385-QUICK BENCH
1396-DESKBENCH DISK 1
1397-DESKBENCH DISK 2
1398-DESKBENCH DISK 3
THIS AMAZING PACK IS ONLY £4.00 FOR 5 DISKS

MUSIC TO THE EARS! PACK

5 STUNNING MUSIC DISKS THAT REALLY DO SHOW OFF YOUR AMIGA'S MUSICAL POWER TO THE FULL, SO WIRE YOUR MACHINE UP TO A GOOD AMP (OR ZI-FI ONLY £34.95) SIT BACK AND REVEL IN 5 DISKS OF AMAZING QUALITY. THE DISKS ARE:-
1227-PARTY MUSIC WINNERS
1231-DRUMS + PIPES
1175 COMPLEX UNIVERSAL
1181 ZERO DEFECTS MUSIC
1292 EXXON MUSIC DISK
ALL THIS FOR ONLY £4.00 FOR ALL 5 DISKS.
YOU JUST CAN'T GO WRONG!

STOP PRESS!!

1417-GRAPHICS CONS
1419-TWINTRIS
1420-GAMES GALORE 9
1424-SILENTS MUSIC
1427-RPG GAME
1428-CHESS TUTOR
1429A-MAHONEY+
1429B-CACTUS MUSIC
1431-GRAPHICS DISK
1433-LSD MEGA DEMO
1438-IQ TESTER
1439-QUARTZ DEMO
1441-PUMA TRAKER
1444-ATLANTIS SLIDES
1458-KEFRENS DEMO
1462-UNICOPY
1465A-TERMINATOR
1465B-SLIDESHOW
1468-PRINT UTILS
1472-A-GENE
1473-REBELS THING
1474-SILENTS FRANCE
1475-REBELS DEMO
1478-AMIBASE 3.76
1481-RIM(DATA BASE)

OPERATION LEMMING

A MEGA GAME FOR CHARITY PROGRAMMED BY KOMFY KEN THIS GAME IS PRICED AT £3.00 WITH 2 QUID GOING DIRECT TO THE R.N.I.B

"SUPERB" SAYS T.U.G.

MORE HOT NEW ADDITIONS

1397 DESKBENCH DISK 2
1398 DESKBENCH DISK 3
1399 SHAMEN REMIX DISK 1
1400 SHAMEN REMIX DISK 2

DISKS YOU SHOULD'NT BE WITHOUT!!!!!

SS10 TECNO ATTACK (£1.50)
1358 LABEL BASE 3 (DATABASE)
1388 C64EM, ST EM, MESSYDOS
1393 LAND BUILDER V3.2 (LIKE VISTA BUT £100.00 CHEAPER)
1369 OPTI UTILS 2 (NEED I SAY MORE!!!!!)
1238 AND 1239 TARROT, (WHAT SECRETS DO THE STARS HOLD FOR YOU)
1243 GAMES GALORE 8 (FROM GARY HENDERSON)

BITS + BATS

AMIGA MICRO SWITCHED MICE ONLY £15.95
AMIGA DUST COVER ONLY £1.99
AMIGA TRACK BALL ONLY £26.95
AMIGA RAM EXPANSIONS ONLY £24.95
AMIGA MOUSE MATS ONLY £1.95
AMIGA BLANK DISKS ONLY £5.00 FOR 10!!!!

AND REMEMBER OUR PD IS £1 NOT £1.25 SO DON'T GET RIPPED OFF BY SOME OF THE OTHER'S

AM-FM BY BJORN LYNNE

IS A BRAND NEW DISK MAG TO HIT THE AMIGA SCENE, FOR ALL AMIGA MUSICIANS YOUNG OR OLD THIS IS THE ONE FOR YOU, AGAIN ONLY AVAILABLE FROM 17- BIT AT THE BARGAIN PRICE OF £2.50
SERIOUS AMIGA AND CASUAL AMIGA USER'S WILL LOVE THIS RADICAL NEW MAG FROM EX CRUSADER BJORN LYNNE I HEARTILY RECOMMEND YOU INVEST IN THIS ONE!
A donation goes to the authors

NEW IN!!!

TRACK DISPLAY DRIVES, SHOW EXACTLY WHAT TRACK THE SECOND DRIVE IS CURRENTLY ON WITH A STYLISH LED COUNTER ON THE LEFT HAND SIDE ONLY £59.95

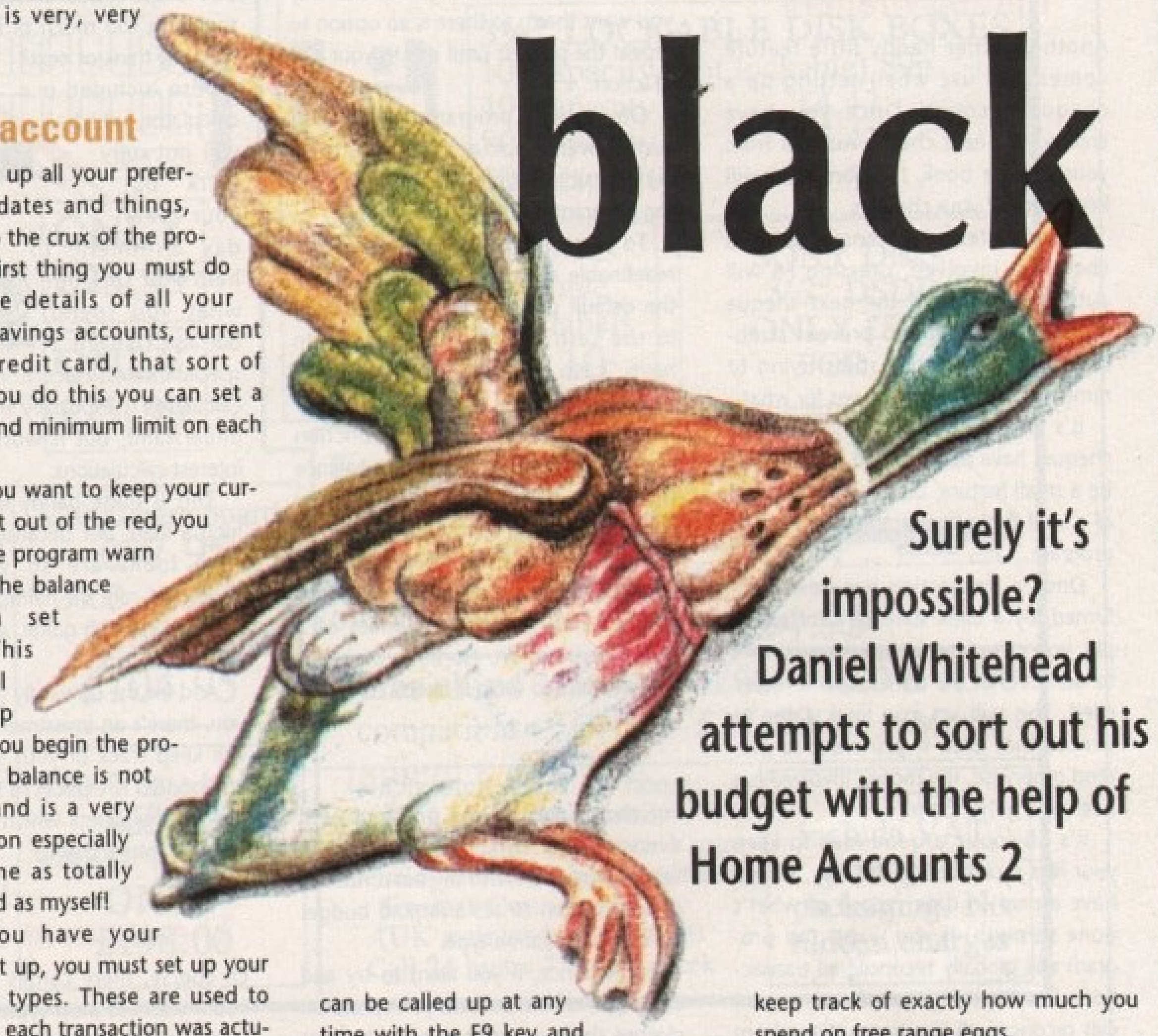
ORDERING DISKS E.T.C

WE TAKE ALL MAJOR CREDIT CARDS AND ARE OPEN FROM 9.00AM TO 8.00PM MON TO THURS AND 9.00AM TO 5.30PM ON FRIDAYS AND SATURDAYS CHEQUES AND POSTAL ORDERS SHOULD BE MADE PAYABLE TO
17-BIT SOFTWARE PO BOX 97 WAKEFIELD WF1 1XX DEPT AMIGA COMPUTING
IF NO ONE IS THERE THEN OUR FAITHFUL ANSWER PHONE WILL GLADLY TAKE YOUR ORDER **TEL 0924 366982.**

ALL 17-BIT DISKS ARE £1 EACH (OVER 1000
ALL DEJA-VU(AMOS LICENSE WARE)£3.50
ALL FRED FISH DISKS ARE £1
ALL SCHEME 17 (EG SS10) ARE £1.50
PLEASE REMEMBER TO ADD 50P IF YOU ORDER LESS THAN 5 DISKS. THANKYOU

PLEASE NOTE THE NUMBER ON THE JIFFY YOU RECEIVE IS YOUR MEMBER NO, PLEASE QUOTE ON YOUR ORDERS!

Into the black



Surely it's impossible? Daniel Whitehead attempts to sort out his budget with the help of Home Accounts 2

Finances. Budgets. Taxes. Three words that are guaranteed to send even the most organised among us into a frantic scramble for something else to do. We'll do anything but sift through endless figures.

But these things must be endured, so why not make them a little less hassle with an accounts package? Designed to make personal accounting at least bearable, digita,s Home Accounts 2 might just fit the bill.

Well, it's confession time. Asking me to review an accounts package is like asking Paul Daniels to write a thesis on early Bolivian farming methods. I know nothing whatsoever about personal finance.

So I suppose I'm the perfect person the try out this new *pièce de résistance* from Digita. After all, if it can sort out my twisted perception of money matters, then it's just got to be foolproof.

First impressions last

Thankfully, Home Accounts 2 has a very friendly approach which helped to thaw my initial trepidation, and although I was forced to refer to the manual to clarify a few terms, I could actually understand a lot of what the icons and menus were on about.

I was flabbergasted, not to mention a little bit worried. Could it be that I was actually going to understand an accounts package? A sobering thought.

Digita pride themselves on the fact that Home Accounts 2 is easy enough for beginners to get into, but still detailed enough to allow all the financial boffins to do all their financial boffy bits. This is in evidence in the wonderful manual, without which I probably would've sunk without a trace. While the program is easily accessible, a good manual never goes amiss.

For beginners like me, the tutorial contained within the manual will take you by the hand and show you just how to set up your own accounts and keep track of them with the program. This step by step guide is very well thought out and rather than just say that "this does this and that does that" it helps you to set up an example file.

While you build up your example, it'll demonstrate all the different features. It certainly made things a whole lot easier for me and if you're feeling nervous about cryptic options and unfathomable features then let me put your mind at rest. Home Accounts 2 is very, very easy to learn.

Taking account

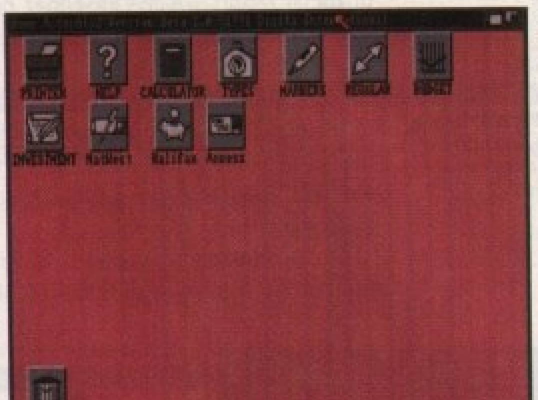
After setting up all your preferences and dates and things, you come to the crux of the program. The first thing you must do is enter the details of all your accounts. Savings accounts, current account, credit card, that sort of thing. As you do this you can set a maximum and minimum limit on each account.

Thus if you want to keep your current account out of the red, you can have the program warn you when the balance reaches a set limit. This warning will come up each time you begin the program if the balance is not rectified, and is a very handy option especially for someone as totally disorganised as myself!

Once you have your accounts set up, you must set up your transaction types. These are used to clarify what each transaction was actually for. Each type is abbreviated to a four letter code, and can be expanded upon in a reference box so you won't forget what the codes stand for.

A list of all the transaction types can be called up at any time with the F9 key and others can be added to keep up with your changing needs. The types can be anything from cash withdrawals to car expenses and gifts.

Of course, the whole thing is completely user definable, so if you want you can set up a transaction type to cover the purchase of free range eggs. That's assuming, of course that you want to keep track of exactly how much you spend on free range eggs.

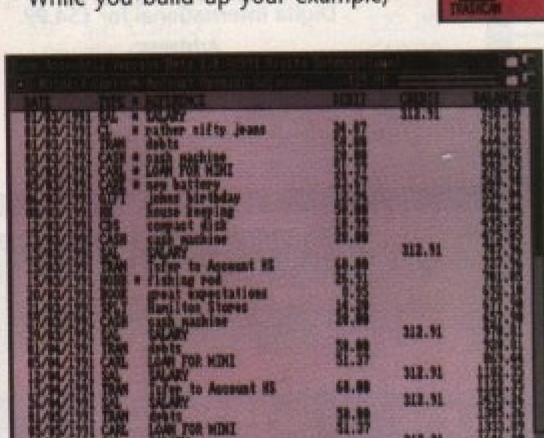


The workbench-style options screen puts all the options at the click of a mouse button

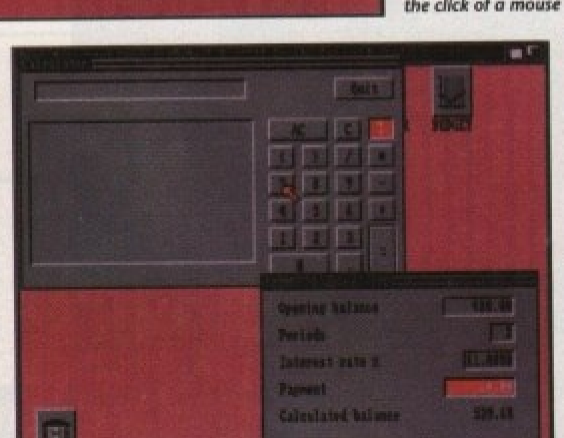
Some transactions can be set automatically, such as salary, taxes, any bank loans, mortgages and all the other wonderful ways that the world has to drain your resources. This way, you needn't worry if you don't use the program for another two months.

As soon as you enter the new date, the program will update its records according to the preset transactions, so when you look at your current account you'll see your salary in there and all the debits worked out for you.

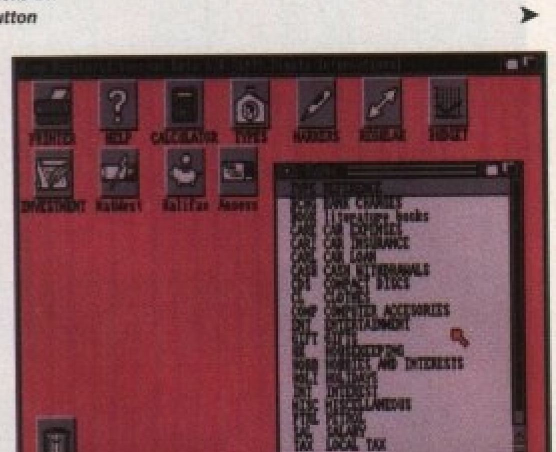
This is very handy if you fancy hibernating for a few months but don't want to spend hours laboriously typing in all the comings and goings of your account when you wake up. ➤



My current account. Unfortunately, it's not my real one, just a demo



The Home Accounts 2 calculator has a handy interest calculator for tricky maths



Here are my user defined transaction types, covering everything I'm ever likely to spend money on

It's also a wonderful example of just how little effort is required to keep your financial records up to date.

Getting friendly

Another rather handy little feature comes into use when setting up a cheque account. Once you have entered the next cheque number from your cheque book, the computer will keep track of your cheques.

When entering a transaction, if a cheque is involved, pressing F8 will automatically insert the next cheque number. This helps to prevent scrabbling through cheque stubs trying to remember which cheque was for what.

It's also handy for verifying which cheques have been cashed. It may only be a small feature, but it's further proof of a well thought out and user friendly program.

Once a transaction has been confirmed, by a bank statement for example, you can place an asterisk against it to denote that the transaction is reconciled. This will act as a final stamp to denote that even if you want to pretend otherwise, the money involved has been and gone. Gulp.

It's obviously a good idea to keep your files reconciled in this way, so you have an up to date record of what's gone through. If you want, the program will globally reconcile all transactions between any two dates, so you can reconcile all the transactions from your last bank statement in one fell swoop. It can also automatically reconcile transactions if given the start date, the end date, the target balance and the number of transactions that should make that balance. Unfortunately, this won't always work things out the way you want them, so there is an option to repeat the process until it is to your satisfaction.

Obviously, a program dealing with such a diverse topic as finance has to be fairly flexible – different users will use the program for different reasons.

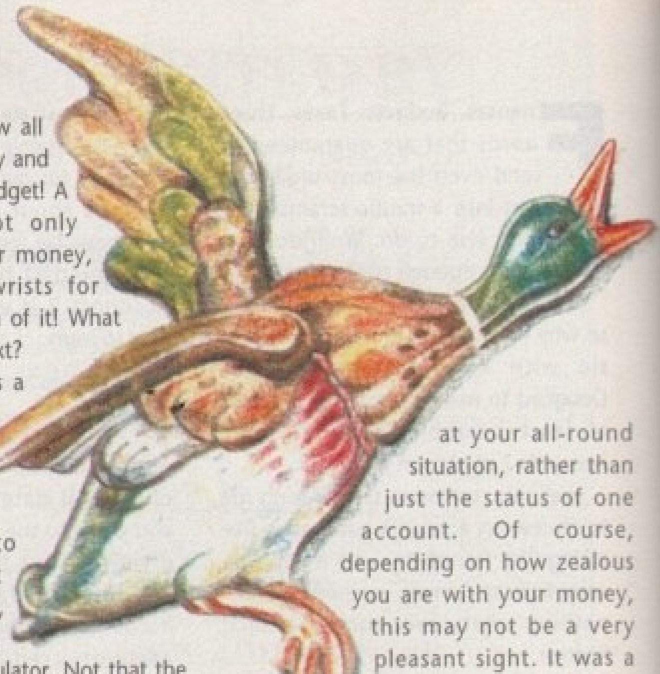
To cover this, Home Accounts 2 is as redefinable as possible. You can set all the default preferences, so if you tend to use cash machines a lot you can have "cash machine" as the default transaction type.

You can also redefine the function keys to suit your needs, and the balance sheets can be altered to remove any columns you don't make full use of. So whether you want to keep a note of your measly savings account (like me) or hold sway over the finances of a major corporation, Home Accounts 2 can be adapted to your needs.

Stick to a budget

For those who have a problem with overspending, which I'm ashamed to say is an issue close to my heart, there's also an option to set a limited budget for each transaction type.

For instance, if you want to try and cut down on the amount you spend on clothes then you merely set a budget on your clothes transactions for, say, £30 a month. Now all you have to do is try and stick within that budget! A program that not only keeps track of your money, but slaps your wrists for spending too much of it! What will they think of next?



Also included is a calculator, which will not only work out your every-day arithmetic to help you sort out what you spend, but also contains a special interest calculator. Not that the calculator is especially interesting you understand, but it works out simple interest calculations.

This is quite handy if you're planning a loan, but because the terms of such loans are so variable you shouldn't rely on it implicitly, rather use it as a rough guide. Another handy addition though.

And for the upwardly mobile among you, there's an investment section that will keep track of your shares, trusts, and bonds. The prices of these are then included as assets which the program will take into account.

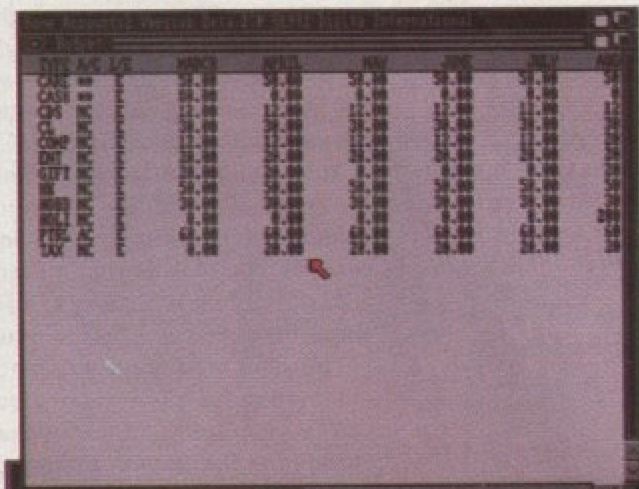
The moment of truth

Of course, there comes a time when you'll want to stop typing in all your transactions and take a look at just what your financial situation is like.

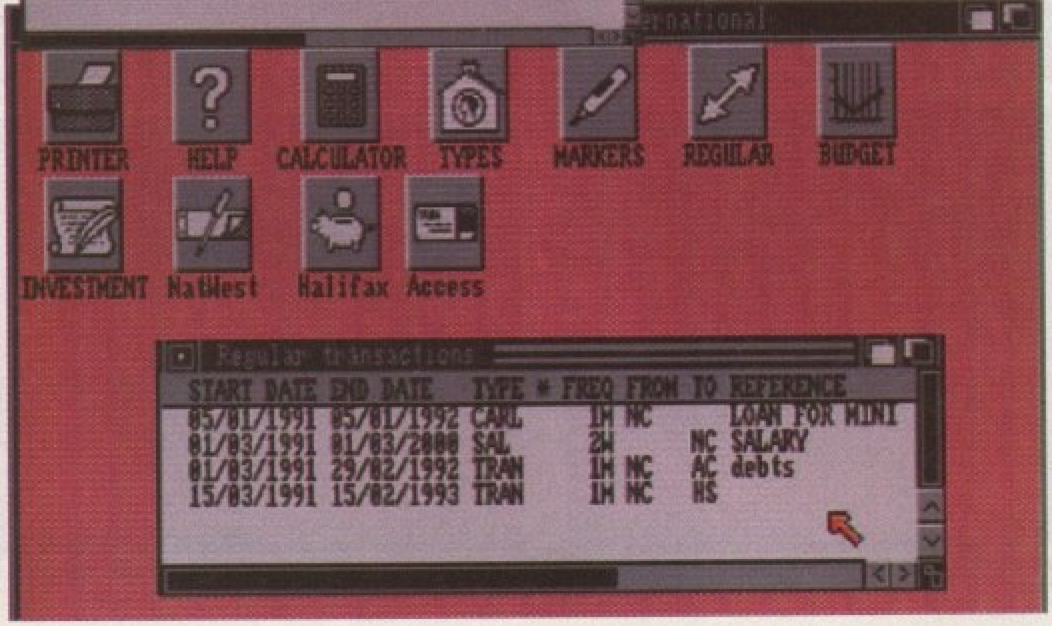
Home Accounts 2 allows you to do this by providing a budget overview, which checks your actual expenditure against your preset budget, or via a financial report which can either be viewed onscreen, dumped to a printer or saved to a disk.

This is, after all, what Home Accounts 2 is all about. Keeping a record of what you spent is all very well, but your bank statements can do that for you.

The advantage of having it all on computer is that you can actually look at your all-round situation, rather than just the status of one account. Of course, depending on how zealous you are with your money, this may not be a very pleasant sight. It was a shock to me, I can tell you.



Here's my preset budget. Can I stick to it? Answers on a postcard...



And here are my regular transactions. This means the computer will do all the working out for me, thank goodness

Manually speaking

As I said before, a good manual never goes amiss and Home Accounts 2's is certainly good. Not only does it contain the life-saving tutorial, but it also features a huge section which deals with every single option in the program in depth. Very handy for when you've got into the program and are looking to do more ambitious things with it.

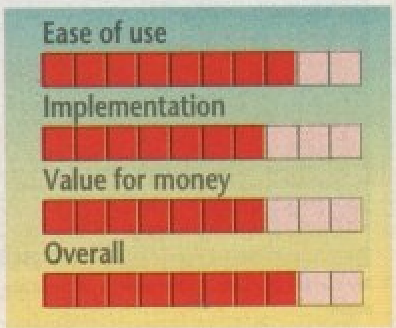
Also present is a large chapter which discusses general financial issues. A brilliantly clever idea, as it helps you to avoid some of the pitfalls of the money world. It includes stuff on good housekeeping, getting credit, how to avoid debts and loan sharks and some general hints on how to make the most of your money.

Conclusion

So just how mind bogglingly dull is Home Accounts 2? Well the answer, I'm rather distressed to report, is "not very". Granted, it won't make you go into paroxysms of pleasure at the sight of it, but it's actually a completely functional, very useful and amazingly easy program to use.

If you're already a Home Accounts user then this is the way forward, but if you're a wary newcomer to accounts packages then cast off your doubts and splash out on Home Accounts 2. You'll probably be very surprised. Even I could understand it. And believe me, that's saying something.

Home Accounts 2 is published by Digita International for £54.99.
Address:
Digita International Ltd,
Black Horse House,
EXMOUTH
EX8 1JL
Tel. 0395 270273



Credit Card Hotline
Tel: 0276 676308

Virgo
DEVELOPMENTS

Innovation House,
Albany Park, Frimley,
Surrey, GU15 2PL.
Fax: 0276 676309

VISA

Amiga A500 RAM CARDS

V500: ½Mbyte expansion.
Upgrade your Amiga A500 to 1Mb. Chip/fast ram compatible, gold plated connector, On/Off switch.

ONLY £23.99

V501: ½Mbyte expansion + Clock.
As V500 + Battery backed real time clock

ONLY £27.99

V2000: 2Mbyte expansion + clock.
Upgrade your Amiga A500 to 2.5Mb. Expandable in ½Meg stages, compatible with Kickstart 1.2 & 1.3, On/Off switch, gives 1Mb of chip ram + 1.5 Mb fast ram if required. Comes complete with Gary connector & full installation instructions.

V2000 bare board £37.95
V2000 + 2Mbyte ONLY £104.95

V4000: 4Mbyte expansion + clock.
Upgrade your Amiga A500 to 4.5 Mb. Same as V2000 but gives an additional 4Mb of fast ram or 3.5Mb fast + 1Mb chip ram

V4000 bare board £63.00
V4000 + 4Mbyte ONLY £198.00

3½" LOCKABLE DISK BOXES

10 Capacity (not lockable)	89p
40 Capacity	£4.47
80 Capacity	£5.41
100 Capacity	£6.44

3½" DSDD Disks
2 for 1 guarantee
including disk labels
£4.45 for 10

SONY Disks
3½" DSDD
ONLY £5.80
FOR 10

External 3½" Disk Drive
Top quality, low noise, high reliability 1meg drive. Sony mechanism, Through port, on/off switch. ONLY £54.95

Ram chips 256Kx4, V2000, V4000 & A590 compatible. ONLY **£17.59** for ½Mbyte

Dispatch within 24 hours
12-month guarantee.
Cheques, Postal orders to Virgo Developments at above address.
Express Courier delivery (UK mainland only) £6.50
Call 24 hours 7 days a week

All prices include VAT, postage & packaging. No hidden charges

---

LOWEST PRICES

✢ BCS CHRISTMAS OFFERS ✢

CDTV £445

✢ OFFER 1 ✢
Philips CM8833 MkII & On-Site Maintenance & F19 Flight Sim & Lead
£228

✢ OFFER 2 ✢
A500 1Mb & Philips CM8833 MkII & On-Site Maintenance & F19 Flight Sim & Lead
£528

✢ OFFER 3 ✢
A500 Cartoon Classic Pack & 1½ Meg Ram & Philips CM8833 MkII & On-Site Maintenance & F19 Flight Sim & Lead
£605

✢ OFFER 4 ✢
A500 1Mb Plus & Cumana External Drive
£350

DISKS DISKS DISKS
100% CERTIFIED ERROR FREE

50	3½" DS/DD	£21.75
100	3½" DS/DD	£33.00
150	3½" DS/DD	£49.00
200	3½" DS/DD	£62.00
400	3½" DS/DD	£123.00
500	3½" DS/DD	£139.00

1000+ Call for spot prices
Prices include VAT & Free Delivery & Free Labels

NEW 100 CAPACITY 3½" LOCKABLE BOXES & DISKS
NO QUIBBLE LIFETIME GUARANTEE

50	3½" DS/DD & 100 Cap Lockable Box	£24.50
100	3½" DS/DD & 100 Cap Lockable Box	£36.00
150	3½" DS/DD & 100 Cap Lockable Box	£52.50
200	3½" DS/DD & 2 100 Cap Lockable Boxes	£66.00
400	3½" DS/DD & 4 100 Cap Lockable Boxes	£130.00
500	3½" DS/DD & 5 100 Cap Lockable Boxes	£156.00

All prices include VAT & Free Delivery & Free Labels

GENUINE SONY BULK

50	3½" DS/DD	£22.00
100	3½" DS/DD	£40.00
200	3½" DS/DD	£78.00
500	3½" DS/DD	£162.00

Price includes Free Labels & VAT & Free Delivery

5¼" DS/DD Disks 21p Each
5¼" DS/HD Disks 39p Each

3½" 10 Cap Boxes 85p Each
3½" 40 Cap Boxes £4.10 Each
3½" 100 Cap Boxes £4.50 Each
5¼" 50 Cap Boxes £5.10 Each
5¼" 100 Cap Boxes £5.90 Each

3½" DS/HD Disks 60p Each
100 3½" DS/HD Disks £58.00

150 Cap 3½" Posso Box £15.50
60 Cap 3½" Stackable Box £10.00

PRINTERS

Star LC-20	£150
Star LC-200 Colour	£205
Star LC-24 200 Colour	£265
Canon BJ10 EX	£260

AMIGAS

A500 Basic Amiga	£295
A500 1Mb Cartoon Pack	£350
Class of the 90's	£450
A1500	£650
Screen Gems	£330
Screen Gems Software	£30
Cartoon Software	£35
Deluxe Paint III	£35

ACCESSORIES

Amiga Daatascan Professional £145

1/2 Meg & Clock	£29	Zipstick	£11
Cumana Drive	£58	Quickjoy II Pilot	£6.95
Amiga Mouse	£14	Quickjoy III Supercharger	£9.50
A590 Hard Drive	£280	Quickjoy VI Jet-Fighter	£13.50
A590 & 2Mb Ram	£370	Sting Ray	£13.99
1000 Labels	£8	Manta Ray	£13.99
1000 Tractor Labels	£10	Quickshot Turbo III	£9.50
Mouse Mat	£2.50	Mouse Pocket	£2.30
Printer Lead	£8		

ORDER HOTLINE: 0273 506269/0831 279084
All Prices Include VAT Add £4 Delivery Unless Stated, Add £10 Next Day. Cheques will be held for Clearance
Call or send cheques/postal orders to: BCS Ltd, 349 Ditchling Road, Brighton, East Sussex BN1 6JJ.
All offers subject to availability. E & OE

VISA

G.T.S.

GEORGE THOMPSON SERVICES

*Presents Theme Packs and ** GTS Club ***

** GTS CLUB ** GTS CLUB ** GTS CLUB **

HAVE YOU JOINED THE LEADING PUBLIC DOMAIN CLUB FOR AMIGA ENTHUSIASTS?
CONSIDER THEADVANTAGES

* RECEIVE THE LATEST AND THE FINEST PD FROM THE U.S.A. AND EUROPE
* PAY LESS FOR SOFTWARE EVEN LESS ON THEME PACKS
* TALK TO "AMIGA ONLY" ENTHUSIASTS

Since the early days of the Amiga, George Thompson Services have made available to Amiga owners all over the world the latest PD disks from the U.S.A. and Europe. Couriers deliver material each week to our offices where we first carefully check them for virus using the latest virus checkers. They are then catalogued and released to the duplicating room for labelling and copying onto top quality branded TDK disks. As a member of this very Special Club you will benefit from lower PD Software prices and kept upto date on the latest PD and shareware programs for the Amiga. Send only £15.00 annual subscription now and you'll receive by return:

* Our Double Library Disk Pack detailing the contents of 100's of PD disks.
* The latest isssue of Pd News, dedicated to PD and Shareware programmes.
* £5.00 PD Discount Voucher for use against the purchase of 10 or more individal disks at £2.75 each. (You can also choose an extra one free)
* Two brand new disks from the TBAG / SACC Libraries.

To become a member of the "GTS CLUB" just send a cheque, PO or place a credit card order using Acess/Visa and we'll send you this pack immediately.

** TDK BRANDED DISKS **

The same TDK Branded disks that we use for all our Public Domain and Shareware programs. They are excellent quality, individualy wraped and sold in boxes of 10. Why risk using unbranded disks when you can use TDK branded.

£10.00 (Member £9.50)

NEW ** MICE AND BLANKERS ** NEW

The ultimate collection of mouse accelerators and screen blanking programs. This two disk set contains twenty such programs, most are for use by WB1.3 owners, and specific ones for WB2.0. Most of these programs are mouse accelerators and combine a screen blanking utility. Nearly all run at the click of an Icon.

2 Disk Pack £5.99 (Members £5.49)

** AVOIDING THE CLI **

Avoid the CLI/Shell, ideal for beginer. Shake off those CLI Blues with this disk, allowing you to carry out many operations from the Workbench. Copy files and edit your Startup-sequence with ease.

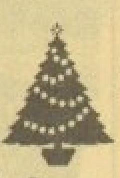
£3.99 (Members £3.49)

NEW ** MEDICAL SPECIAL ** NEW

Heart3D - A wireframe representation of the heart, allows rotation and varying type's of heart state.**No_Smoking** - Animation showing a natural and artificial heart, and describing the effects on the artificial, of smoking. **Ct** - A CT Image processing program, for the examination of scans.

2 Disk Pack £5.99 (Members £5.49)

NEW ** CLIP ART EPS I ** NEW





This disk is packed full of EPS clip art, a total of 62 pieces. The theme is Occasions and Office. Occasions is clip art mainly for Christmas, but includes Valentine and others. Office - contains items that are used daily in most offices. Included are Angel, Balloons, Christmas Tree, Happy New Year, Gift, Santa, Briefcase, Telephone, Scissors, Notebook, Calculator and many others. Please note this this disk requires a package that can import EPS files.

£3.99 (Members £3.49)

NEW ** FAMILY HISTORY ** NEW

Delve into the past with this new genealogy program, based on the Personal Ancestral File program for the IBM and Apple computers. Create a whole database of your past and display family group as well as a Family Tree.

£3.99 (Members £3.49)

NEW ** PRINTER DRIVERS II ** NEW

This new disk has all the latest printer drivers, including a postscript driver, several enhanced DeskJet drivers, Epson, Xerox, Nec, Brother, Citoh, Diablo, Oki, Qume, HP, Sharp and many other printer drivers.

£3.00 (Members £2.75)

** THE ERIC SCHWARTZ COLLECTION Vol I **

The cartoons of Eric Schwartz are unique, they nearly always have a surprise ending. All run at the click of an icon and you will need 1 Meg and then you may possibly have to disconnect external drives.

5 Disk Set £10.99 (Members £9.99)

** PRINTER WORKSHOP Vol II **

We have included on two packed disks twenty five of the finest PD/Shareware programs to help Amiga users with printing and achieving high quality results. Print Banners with Gothic, Dump screens using ShowPrint, Print labels with DisPrint.

2 Disk Pack £5.99 (Members £5.49)

** HOME MANAGEMENT PACK Vol II **

More useful programs for home and the small business. There is a typing tutor and grammar checker, Web a superb spreadsheet and DataEasy an easy to use database. CheckBook will look after your finances and Milage Master your car running costs.

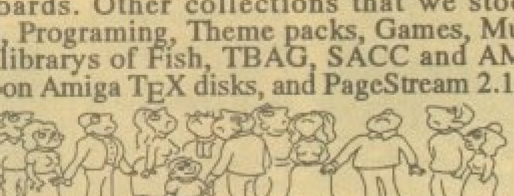
2 Disk Pack £5.99 (Members £5.49)

** LIBRARY PACK **

Our double disk libary pack detailing the contects of 100's of PD disk's. (Free update if returned with order)

Only £1.50

Dont forget we hold one of the largest and only collection of Try Before You Buy (TBYB) in Europe. We also hold the PDQ series of disks, they have been put together by Jumpdisk in California and consist of a potpourri of programs that have, in the main, been downloaded from Bulletin Boards. Other collections that we stock are Educational, Programing, Theme packs, Games, Music as well as the librarys of Fish, TBAG, SACC and AMUSE. Comming soon Amiga TEX disks, and PageStream 2.1 Fonts.



We Wish all our customers New and Old a very Merry Christmas & a Happy Amiga Year.

VISA

We Are George Thompson Services.

Access

Our address is: CUCUMBER HALL FARM, CUCUMBER LANE, ESSENDON, HERTS, AL9 6JB. (0707) 664654.

Please send a cheque (with your Bank Card No. and Expiry Date on reverse), a PO or just telephone with your Visa or Access details before 4pm and we will despatch your order immediatly. Our Telephone lines are now open 9.00am to 4.00pm, answerphone 24hrs.

SLACK WILLYS

MAXIMUM PD

MAXIMUM PD
1168 London Road
Derby
DE2 9QG

FREE

50 CAP DISK HOLDER WITH EVERY ORDER OVER 5 DISKS

99p per disk

ORDER BY CREDIT CARD NOW

Programming

0053 New C Manual (4)
0139 North C (2)
0142 Aztec C
0146 Pascal
0393 PC Qued
0145 A68k Assembler
0143 Power Logo

Games

1914 Growth
1915 Ed 209
1916 Sealance
1918 1918
1919 The Evil Dead Game
1920 Pom Pom Gunner
1921 Chinese Checkers
1922 Mechforce
0076 ST Bash
1923 Tech Trivia
0165 Empire
0067 Snakes and Ladders
0071 Air Ace
0379 Gridrunner
0381 Llamatron
0382 Trix
0383 Amigooids
0384 Battlepong
0385 Blue House
0386 Zeus
0387 Scum Haters
0247 Megaball
1776 Raid
1777 Wizzys Quest
1778 Windersoft Games
0071 Air Warrior
0063 Star Trek (2)
1786 Laserzone

Youngsters Disks

0104 Face Maker
0105 Colouring Book
0103 Pair It
0031 Learn & Play (2)
0101 Treasure Island
1780 Train Construction Kit

Demo Disks

1924 Horizon Sleeping Bag
1925 Vangelis Demo
1926 Amos 3D Demo
1927 Kefrens The Wall
1928 Crytoburners Red October
1929 Deep Sea
1930 Red Sector Demo Maker
1931 Plasmutex
0399 Mr Potato Head
0400 Evolution Slideshow
1781 Seargent Pepper (2)
1782 Rebels Candyland
1783 Digital Innovation by Anarchy
1784 Silents Ice
1785 Tomsoft Virtual Worlds
1937 Space Chase
1938 Ghostpool Animation
1939 The Juggler
1940 Magician
1941 Adams Family Demo
1942 Advance Ham Pics
1943 Chainsaw Slippers
1944 Nightbreed
1945 Roger Dean
1946 Yabbadabba Slideshow
1947 The Fabulous Art of T Richter
1948 Vax Slideshow

Business

0091 Wordwright Wordprocessor
0098 MCad
0085 Amibase v3
0094 Home Banking
0198 Typing Tutor
0092 Home Management (2)
0394 Word Frenzy
0083 Business Card Maker
0099 Analyticalc
1764 600 Business Letters
1765 Rim Database
0087 Clerk Home Accounts

Utilities

1949 Pendle Europa Megautilities
1950 Pendle Europa Utilities 5
1951 Pendle Europa Utilities 6
1952 Pendle Europa Utilities 7
1953 Razor 1911
1954 Sid v1.6
0128 P Copy
0118 Spectrum Emulator
0117 ST Emulator
0115 Workbench II
0122 Master Virus Killer
0116 64 Emulator
0119 QL Emulator (3)
0124 No Click
0120 Dcat Disk Cataloguer
0391 Beginner Bench
0390 Multi Ripper
1766 Assassins Boot Utils
1767 Direct Action (Animation Util)
1768 Dynamite Font II
1769 TV Graphics
1770 Video Applications (2)
1771 Darkstar Utils II

SLACK WILLYS MAXIMUM PD

CALL FOR OUR CATALOGUE ON AMIGA AND PC

Music

0135 Octalizer
0123 Future Composer
1772 NoiseTracker
1773 Sample Disks 1-16
1774 Bass-Amatic

Art & Graphics

0158 DKB Ray Trace
0159 CLight
0157 Slideshow Construction Kit
0163 Deluxe Draw
0396 Draw Map 2.3
0397 TSB Vector Designer
0229 Red Sector Demo Maker
1775 TitleGen
0162 Ghost Writer

Adult Sets

0002 Max Adult Set 1
0003 Max Adult Set 2

The contents of the above Adult Sets are too sexy for this ad.

24 HOUR ORDERING

SAME DAY DESPATCH

MAXIMUM

0332 758683

PHONE FOR CATALOGUE. MANY MORE TITLES STOCKED

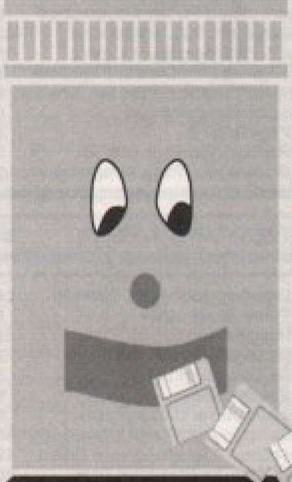
All our Public Domain is priced at £0.99p per disk. Postage and packing costs only £0.95p. Please note that some titles contain more than one disk. Please make all cheques payable to "Maximum PD". All our prices are inclusive of VAT.

AMAZING VALUE BRANDED PD FOR ONLY 99p

Often copies are made onto Extra Quality TDK, Dyson etc. NOT Bulk Disks!

FREE...FREE...FREE... YOU CAN CHOOSE EITHER... A 50 capacity disk holder OR... A 10 capacity disk library case! FREE...FREE...FREE... (Offer only available with 10 discs or over)

- FREE PD DISK...with every 10 Disks ordered
- FAST DELIVERY... Nobody does it quicker!
- No minimum order requirement
- FREE FULL PD LIST + News, info and tips with every order
- All of our PD is usually supplied on Quality Branded Disks... (ie) TDK, Dyson etc wherever possible



SINGLE DISKS – BUSINESS
091 B WORD WRIGHT Top Selling Word Processor
098 B MCAD
085 B AMIBASE V3
094 B HOME BANKING
198 B TYPING TUTOR
092 B HOME MANAGEMENT (2 disks)
394 B WORD FRENZY
083 B BUSINESS CARD MAKER
099 B ANYTICALC
1764 B 600 BUSINESS LETTERS
1765 B RIM DATABASE
087 B CLERK (Home Accounts)

UTILITIES
128 U P COPY
118 U SPECTRUM EMULATOR
117 U ST EMULATOR
115 U WORKBENCH II
122 U MASTER VIRUS KILLER
116 U 64 EMULATOR
119 U QL EMULATOR
124 U NO CLICK
120 U DCAT DISK CATALOGUER
391 U BEGINNER BENCH (New disk)
390 U MULTI RIPPER
1766 U ASSASSINS BOOT UTILS
1767 U DIRECT ACTION (Anim Util)
1768 U DYNAMITE FONT II
1769 U TV GRAPHICS
1770 U VIDEO APPLICATIONS (2 disks)
1771 U DARKSTAR UTILS II

MUSIC
135 M OCTALIZER
123 M FUTURE COMPOSER
1772 M NOISETRACKER
1773 M SAMPLE DISKS 1-16
1774 M BASS-AMATIC

ART & GRAPHICS
158 A DKB RAY TRACE
159 A C LIGHT
157 A SLIDE SHOW CONST. KIT
163 A DELUXE DRAW
396 A DRAW MAP V2.3
397 A TSB VECTOR DESIGNER
229 A RED SECTOR DEMO MAKER
1775 A TITLEGEN
116 A GHOST WRITER

PROGRAMMING
053 P NEW C MANUAL (4 Disks £3.96)
139 P NORTH C (2 Disks £1.98)
142 P AZTEC C
146 P PASCAL
393 P PC QUED
045 P A68K ASSEMBLER
0143 P POWER LOGO

GAMES
165 G EMPIRE
067 G SNAKES AND LADDERS
071 G AIR ACE
379 G GRIDRUNNER
381 G LLAMATRON
382 G TRIX
383 G AMIGAOIDS
384 G BATTLEPONG
385 G BLUE HOUSE
386 G ZEUS
387 G SCUM HATERS
247 G MEGABALL
1776 G RAID
1777 G WIZZYS QUEST
1778 G WONDERSOFT GAMES
071 G AIR WARRIOR
063 G STAR TREK ENGLISH (2 disks)
1786 G LAZERZONE

YOUNGSTERS DISKS
104 Y FACE MAKER
105 Y COLOURING BOOK
103 Y PAIR IT
1779 Y LEARN (2 Disks £1.98)
101 Y TREASURE ISLAND
1780 Y TRAIN CONSTRUCTION KIT

DEMO DISKS
399 D MR POTATO HEAD
400 D EVOLUTION SLIDE SHOW
1781 D SEARGENT PEPPER (2 disks)
1782 D REBELS CANDYLAND
1783 D DIGITAL INNOVATION BY ANARCHY
1784 D SILENTS ICE
1785 D TOMSOFT VIRTUAL WORLDS

Amazing sets all at incredible prices. See our catalogue for more information or call today on 0773 531991

001 S PD Business Set 1	5 Disks	£4.95
002 S PD Adults Set 1	5 Disks	£4.95
003 S PD Adults 2	5 Disks	£4.95
019 S PD Card & Board	4 Disks	£4.95
016 S PD Adventures	5 Disks	£4.95
006 S PD Games Set 2	5 Disks	£4.95
004 S PD Programming	5 Disks	£4.95
020 S PD Beginners	4 Disks	£3.96
024 S PD Youngsters	2 Disks	£1.98
022 S PD Video & Audio	3 Disks	£2.97
009 S PD Utils Set 1	5 Disks	£4.95
005 S PD Games 1	5 Disks	£4.95
017 S PD Artists	5 Disks	£4.95
026 S PD Puzzles	2 Disks	£1.98
012 S PD Clipart 1	5 Disks	£4.95
014 S PD Musician Set 1	5 Disks	£4.95
011 S PD Utils Set 3	5 Disks	£4.95
021 S PD Hard Disk Set	3 Disks	£2.97
013 S PD Clipart 2	5 Disks	£4.95
043 S PD Adult Set 4	5 Disks	£4.95
042 S PD Adult Set 3	5 Disks	£4.95
044 S PD Games Set 3	5 Disks	£4.95
NEW SETS		
388 S PD Games Set 5	5 Disks	£4.95
389 S PD Games Set 6	5 Disks	£4.95
392 S PD Utils Set 4	5 Disks	£4.95
395 S PD Business Set 5	5 Disks	£4.95
398 S PD Artist Set 2	5 Disks	£4.95
402 S PD Demo Set 3	5 Disks	£4.95

OVER 5000 CUSTOMERS HAVE USED OUR SERVICE – WHY NOT TRY US TODAY?

Test your computer knowledge with the computer users competition. Prizes on offer are: Amiga System, Super-Famicon, Mega-Drive/PC and many cash prizes. Competition changes each week! Phone today on 0898 505 194. Calls charged at 48ppm peak 36ppm off peak.

POSTAL PD

POSTAL PD (Dept AC03) ● 77a Nottingham Road ● Eastwood ● Nottingham ● NG16 3AJ

0773 531991

FAX: 0773 710089

REMEMBER WE ARE ALWAYS UPDATING OUR TITLES. PLEASE PHONE FOR DETAILS OF NEW RELEASES

MAIL ORDER MADE EASY...

Phone us with your credit card number or make cheques or postal orders payable to 'POSTAL PD'. You pay the prices listed above but please remember to **add 60p p&p per order.** If you can buy an identical pack cheaper elsewhere we promise to refund the difference AND GIVE YOU A FREE PD DISK!

XMAS SPECIALS

XMAS CLIP ART & AMIGAFOX D.T.P. (Xmas clip art + lots more)	£3.00
C PROGRAMMING PACK (C Compilers, C Utils, QED Editor + C Manual!) 8 disks	£5.50
Red Sector Demo Maker Pack (Bob, Font & Vector Editors, Program & Utils Disk) 5 disks	£3.75
XMAS PARTY FUN PACK (MUSIC, DEMOS, SHOOT 'EM UPS! – best of 1991!) 8 disks	£5.50
TOP PD POP (PET SHOP BOYS REMIX, TECHNOTRONICS, MIAMI VICE, MADONNA, ERASURE) 6 disks	£4.20

75p VIRUS CHECKED & VERIFIED 75p

UTILITIES

1000'S AVAILABLE

UA555 ST/64 Emulators	U783 ARP	UA100 C Utils, Debugger etc
UA557 Spectrum Emulator	U1030 Amigazer (Astronomy)	UA101 Lattice C
UA558 QL Emulator	UA62 Iconmania	UA102 North C (2 disks) £1.50
UA733 Diskmaster	UA647 Icons (over 300)	UA105 C Manual (3 disks) £2.25
UA734 Sid + Disk Utils	UA645 IFF Fonts (3 disks) – £2.25	UA201 Cursor Basic Compiler
UA735 Hard Disk Utils	UA646 Exile Fonts	UA301 Pascal Compiler
UA1040 Family History DBase	UA498 Red Sector Demo Maker	UA401 Menu Maker
UA737 Messydos	UA1050 Games Music Creator	UA405 Crossword Creator
UA731 Quickbench (W'bench rep'ment)	UA1032 MCAD	UA434 Biorhythms
U782 Jazzbench (W'bench replacement)	UA028 Turbo Backup	UA487 Ham Radio Utils

75p VIRUS CHECKED & VERIFIED 75p

BUSINESS ★ EDUCATION MUSIC ★ DEMOS ★ OTHERS

BUSINESS
BA100 Amibase (database)
BA201 UEdit (wordprocessor)
BA500 Letters (500)
BA555 Label Bases
BA600 Business Card Maker
BA700 Home Banking
BA400 Anlyticalc (spreadsheet)
BA407 Clerk (accounts)
BP01 Home Business Pack (8 disks) £5.50
BP10 Home Management Pack (3 disks) £2.25

EDUCATION
EP01 Education Pack (5 disks) – £3.50
EA75 Learn & Play (2 disks) – £1.50
EA34 Talking Colouring Book
EP99 Astronomy Pack (4 disks) – £3.00
EA55 Train Set

MUSIC
MU10 MED (Music Creator)
MU11 Soundtracker
MU14 Noisetracker
MS30 Depeche Mode
MS1011 Pet Shop Boys Remix (2 disks) – £1.50
MS1220 Madonna Music Pack (4 disks) – £3.00
MS77 Technotronic Remix

DEMOS
D080 Life of Bryan
D078 Adams Family
D744 Dragons Lair (2 disks) – £1.50
D082 Interspace

OTHERS
SL02 Star Trek Slides
SL224 Bruce Lee Slide (3 disks) – £2.25
GA339 Star Trek (3 disks) – £2.25

SOUND SAMPLES (Licenceware)

CREATORS! & SPECIALISTS IN SOUNDS

* MUSIC * GAMES * DEMOS * SCI-FI * DRUMS * GUITARS * ATMOSPHERICS
2.50p EACH OR £8 FOR PACK OF 4. MORE NEW SOUNDS EVERY WEEK CREATED BY 3 AMIGOS

Virus checked and verified. For special offers and comprehensive software brochure details returned with first order. P&P UK 60p Europe £1 World £2. Cheques or postal orders payable to:

3 AMIGOS, 16 MARSETT WAY, LEEDS LS14 2DN. TEL: 0532 733043

RAW PUBLIC DOMAIN

32 MAIN PARK
MILESTONE ROAD
CARTERTON
OXON
OX18 3RU

DEMONSTRATIONS		MUSIC	
Crionics Destruction	D001	Alien Nation	M001
Budbrain 1 (2 Discs)	D002/3	Bat Dance Remix	M002
Budbrain 2	D004	Twin Peaks	M003
Phonomena Enigma	D005	Groove is in the Heart	M004
Harlequin Demo	D006	Jarre Revolutions	M005
The Run	D007	Do the Bartman (3 Discs)	M006
Fighter Animation	D008	Miami Vice Remix	M007
Outsider Acid	D009	808 State Remixes	M008
UTILITIES		**GAMES**	
Speedbench	U001	Seven Tiles	G001
Dope Intro Maker	U002	Cluedo + Monopoly	G002
Professional Demo Maker	U003	Raid	G003
Master Virus Killer V2.1	U004	Star Trek Game	G004
PC Emulator	U005	Insiders Club	G005
Digital Utilities	U006	Frantic Freddie	G006
DTP Program – In English!	U007	Tennis	G007
Text Plus	U008	Xenon III	G008

THIS IS ONLY A SMALL SELECTION OF OUR CATALOGUE, PLEASE SEND £1.00 FOR THE FULL RAW PD CATALOGUE

JOIN OUR RAW PD USER CLUB, MEMBERSHIP INCLUDES
BI-MONTHLY MAGAZINE (6 ISSUES PER YEAR)*
FREE MONTHLY, A SPECIALLY SELECTED DISC FROM OUR LIBRARY
+ 10% DISCOUNT ON ALL YOUR PD ORDERS

* Magazine contains News, Reviews, Competitions, Letters, Hints & Tips, Classified Ads & Updated catalogue

TO JOIN THE RAW PD CLUB IT COSTS £20 PER YEAR

ALL DISCS £1.00 EACH NO POSTAGE & PACKING NO MINIMUM ORDER

PLEASE MAKE CHEQUES AND POSTAL ORDERS PAYABLE TO RAW PD AND SEND TO RAW PD AT THE ABOVE ADDRESS

EVERY CUSTOMER IS ENTERED INTO A FREE PRIZE DRAW EVERY MONTH

M A S T E R Y O U R F I N A N C E S

PROFIT FROM YOUR MICRO £14.95

Comprehensive step-by-step 60 page guide

Recession? What recession? Make your micro earn

- Whatever the make of your micro, you can use it to make a good income even with only a couple of hours spare each week. Ideal for those at home/unemployed.
- NOT pie in the sky, make a million before breakfast nonsense but a true report of exactly the sort of steps we took ourselves at Intraset.
- Easy, sensible business ideas which can easily be used by anyone with any micro. Part or full-time.
- No computer expertise required. Earn £££ from home doing what you enjoy – using your computer.
- Very little capital outlay needed – you probably have everything you need to start earning
- Learn how to find hundreds of potential customers in your area who will gladly pay for your services.
- Full step-by-step 60 page book

Send cheques or postal orders to INTRASET LTD (DEPT CA) **FREEPOST**, 10 Woodside Avenue, Clayton-Le-Woods, Chorley, Lancs. PR6 7BR.

Phone or Fax for lightning service. All major credit cards accepted.

TEL 025 72 76800
Main office & 24 hr order line
Fax 025 72 74753
Helpdesk 0490 3284
Weekdays 3-4pm

All major credit cards accepted
All prices include P&P and VAT
Overseas orders add £5.00

Intraset Ltd

CASHMASTER

Home and business accounts £39.95

Cashmaster is the easiest to use, most versatile accounts program yet written for both small business accounts or home finance. We wrote CASHMASTER for our own use, out of sheer frustration with other 'easy to use' packages.

Just look at Cashmaster's main features:

- **Easy, natural data entry** – just like a handwritten ledger.
- **Full vat analysis** if needed
- VAT inclusive, exclusive or zero-rated entries
- **Unlimited no. of ledgers at one time** – limited only by disc space
- **Span any time period** – no set period or 1 year limit
- **1000 User-definable class and 1000 accounts codes**
- **Detailed statements** by selected Classes and Accounts
- **Profit and loss-type statement**
- **Tagging of entries for selective reports**
- **Automatic repeat of entries** – standing orders etc. (Yearly, Half-Yearly, Quarterly, Monthly, Fortnightly, or Weekly)
- **Automatic date-sorting of entries** – entries can be inserted anywhere in ledger
- **Output reports to screen, printer or disc file**
- **Reference field for each entry** – Invoice or Cheque no.
- **Split and merge ledgers at any time**
- **All functions available from main program screen** – Class and Account codes visible at all times
- **Pop-up running-total calculator** with one key press.

The **most** user-friendly, powerful and versatile accounts package yet – ***you won't be disappointed.***

CASHMASTER INVOICING & STOCK CONTROL

Companion to Cashmaster or standalone program £39.95

- Full Customer Data file – easy to find account records
- Full Stock Data file, Price Lists, Re-order lists
- Full invoicing with user-defined messages
- Full invoice editing, Invoice To & Deliver To fields
- Settlement, No-Return and Line discounts

A standalone, or integrates with Cashmaster for a **fully featured accounts/invoicing package** costing less than a quarter the price of its rivals.

SPECIAL OFFER – both programmes £69.95 **Saving £9.95**

THE GRAPHOLOGIST

Handwriting analysis program £49.95

'Uncannily accurate' 8000 Plus Magazine
'Recommended highly for the novice and the professional' Micromart

From the beginner to the expert, use The Graphologist to analyse your handwriting, your partners, friends, business associates, prospective employees.

With a sample of handwriting, answer the on-screen questions and follow the instructions. Anything from a signature analysis to a full 15 page complete character report, including career ambition and health through to sexual preferences and megalomania. Edit this report using your word processor for a professional presentation.

The Graphologist is a valuable business tool as well as entertaining and fun. Comes complete with comprehensive manual of graphology.



Games people play

PRIZE LETTER

I'm an educated, intelligent person – a professional qualified psychotherapist come hypnotherapist and member of MENSA who has been searching for a hobby which will use my brain cells for a long time.

This search finally lead to me discovering the joys of Amiga computer games, some of which are extremely sophisticated. I'm into Powermonger, Moonbase, Harpoon, Waterloo etc, games which strengthen our memories and teach history, geography, politics, statistics and initiative.

So why is it that people who choose other hobbies like football, darts, snooker, fishing and crossword puzzles look down on computer games as being childish if I, for one, rejected their choices as not being mature and intelligent enough?

And what is wrong in using this purely for amusement if they can do so with their respective choices?

C Brulez, Ilford

There you have it kids – you don't have to be a Mr Thickie to enjoy playing games on the Amiga!

I've yet to experience anyone telling me that I am childish for playing Powermonger. I have, in fact, yet to experience playing Powermonger. Games can be character building – take Lemmings and Pit Fighter for example.

Seriously though, I do agree with you that the Amiga is as legitimate as most other hobbies entertainment-wise. As long as you don't go overboard on buying software it can be cheaper too.

Floppy frustration

I read your news story "New policy greeted with mixed feelings" with interest as we ourselves have recently had problems with our four-month-old Amiga which we bought from a small dealer in our area.

When our Amiga went wrong (disk drive) I took it back to the shop quite honestly expecting a new machine. The shop were quite happy to recommend Commodore and sell it to me, but when I took it back it was a different story.

All they would offer me was to send the machine off to the national repair centre, and couldn't give me a time when it would be back, only anything from four to six weeks.

I telephoned Commodore's head office complaints department, who were equally unhelpful and I telephoned the national repair centre who were also unhelpful. I wrote to the managing director of Commodore and finally gained a little more satisfaction, but still my machine was not returned until 30 days after I had taken it into the shop, with a new disk drive installed.

The new disk drive makes an awful grinding noise and isn't as it was before. I feel cheated after spending £399 on a computer that is four months old and that is now not in pristine condition, but I haven't a leg to stand on.

The dealer I bought the machine from admitted that Commodore have an appalling after-sales service record, especially with small outlets. With the larger stores like Currys and Rumbelows they would have exchanged the machine straight away.

The only lesson I have learned is to never buy from a small outlet ever again, and not to recommend any of my friends to buy Commodore.

I would be interested in your comments.

L M Skeggs, St Albans

Dear oh dear, you haven't been very lucky with your Amiga have you?

I agree that it is a pain when anything you own goes wrong. I do think you are expecting a bit much of your poor local dealer, though.

Look at the problem from his point of view. He sells you a brand new Amiga that he has bought from a distributor. You pay him – he pays the distributor. No problems so far.

Four months later you, a third of the way through your warranty, appear on his doorstep with a knackered machine. He could of course get straight on the phone to his distributor and buy another Amiga for you to take away.

You would be happy while he, on the other hand, would be left with one broken machine that he can't sell as new after it's fixed. He would also be faced with a bill for the new machine he supplied to you. The profit margin on an Amiga sale is typically 17 per cent so you can see it just doesn't add up.

The point I'm trying to get across is that your local shop sells Amigas on the understanding that Commodore will repair them if they go wrong. Obviously six weeks is a long time to wait, but the fault lies with Commodore and their national repair contractor, FMG.

If you buy an Amiga from one of the high street multiples, there is a chance they will change it on the spot. This is because they hold much larger stocks of the machines. Having said that I doubt you would get a direct no quibble swap from any shop after 30 days.

If you bought a new car and the clutch fell to bits three months later what would you expect – a brand new replacement or a repair?

Most local dealers do a hell of a good job in advising people what setup is right for them. After the sale they go on providing as much dedicated support as they can. I would prefer to respect their position than advise people to shop exclusively in the high street and promote extinction of the breed.

Name that tune

I started buying *Amiga Computing* from the May 1990 issue. I remember that on your old CoverDisks you used to supply us tunes that loaded into MusicBox, an old track player program. The tracks were Song0, Song9, EmpireStrikesBack, NameThatTune, SpaceConsert and MemoryDust.

On the October 1990 issue you stopped providing us with tunes. Then on the November and December 1990 issues you started them again but this time they were self-executable. These ones were Marilyn and Pipes of Lost Time.

Of course (from January 1991) you are now supplying them in MED format. The question is, is there a program to convert the MusicBox and self-executable tunes to MED format?

While I'm at it, I strongly recommend OctaMED from AmigaNuts. Although it cost me £10, it was well worth it for eight channels. However, there are serious limitations on eight channel mode due to the heavy CPU load, but that doesn't matter. I can't wait to get version two!

G MacGregor, Epsom

Have a word with AmigaNuts to see if there is anything to convert from MusicBox to MED. We certainly don't know of such a utility but it's amazing what can be supplied if you pay enough!

I don't think you stand much chance of converting the standalone tunes to a MED-friendly format – again AmigaNuts might be able to help.

Pirate ahoy?

Hands up all those readers who disagree with pirated software? Yes, a vast majority appear to be of the opinion that they do not wish to possess such software. Now hands up all Amiga dedicated magazines who support this view. Yippee, a full house and they all have stated within the last few years that they will not advertise such software within their hallowed pages.

Well, maybe someone can explain how software seems to change status as it crosses European borders. More to the point how can one of the leading five Amiga magazines within the UK distribute 78,266 copies (according to the Audit Bureau of Circulations)

➤

MJC COMPUTER SUPPLIES

Suppliers of Discount Software since 1984

Educational, Local Authority and government orders welcome. Overseas orders please call or write for quotations. All goods subject to availability, prices subject to change without notice. E&OE
Prices Include VAT and delivery by post. Courier delivery available on any item
TO ORDER: Please call the telephone number listed below to place credit card orders – (Access/Visa) or send a cheque/POs made out to MJC Supplies to:

MJC SUPPLIES (AC), Unit 2 The Arches, Icknield Way, Letchworth, Herts SG6 1UJ.
Tel: (0462) 481166 (6 Lines)

PROTAR PRODUCTS

Protar are a well known German company who have now opened in the UK. They produce a range of quality products for the Amiga at very reasonable prices. All products are backed by an impressive 1 year REPLACEMENT warranty direct from the manufacturers
NOTE: Protar products due September

PROTAR A500 HARD DRIVES
A range of drives from 20Mb to 200Mb all with an impressive list of features:
* Optional Ram expansion up to 8Mb
* Transfer rate greater than 1Mb/second
* Up to FIVE times faster than A590
* Drive disable switch
* External SCSI interface

PROTAR A500 HD 20Mb version £279.00
PROTAR A500 HD 30 Mb version £349.00
PROTAR A500 HD 50Mb version £429.00
FREE Courier delivery on Protar Hard Drives

PROTAR VISTO MONITOR
Based on the Philips CM8833 the C141M comes with a variety of inputs and complete with leads.
MJC PRICE £239.95
FREE Courier delivery on Protar Monitors

PROTAR ½ Meg Memory Expansions
½ meg internal (trapdoor) expansion, latest 4 chip design with battery backed clock.
MJC PRICE £25.95

SUPRA 500RX EXPANSIONS

New memory expansions for the A500 – plugs directly into the HD expansion port – NO INTERNAL CONNECTOR REQUIRED.
SUPRA 500RX EXPANSION 1Mb £119.95
SUPRA 500RX EXPANSION 2Mb £159.95
SUPRA 500RX EXPANSION 4Mb £249.95
SUPRA 500RX EXPANSION 8Mb £379.95

NAKSHA UPGRADE MOUSE

280 DPI with FREE Mouse House & Mat. Now also includes free Op Stealth game.
MJC PRICE £21.95

SQuik - Replacement Mouse

Same spec and design as Naksha mouse
MJC PRICE £14.95

CUMANA CAX 354 DISC DRIVE

Quality brand name 3.5" second drive includes thru port, disable switch and No hassle 1 year guarantee.
INCLUDES FREE VIRUS-X UTILITY
MJC PRICE £54.95

A1500/2000 PERIPHERALS

SUPRARAM - add on Ram cards with space for up to 8 Meg of extra Ram.

SUPRARAM with 0k fitted £84.95
SUPRARAM with 2Mb fitted £159.95
SUPRARAM with 4Mb fitted £225.00
SUPRARAM with 6Mb fitted £289.00
SUPRARAM with 8Mb fitted £349.95

SUPRA HARD DRIVES

Using the fast Wordsync 2000 controller and quality Quantum drive mechanisms.
(A1500/2000)

SUPRADRIVE 52Mb (11ms) £299.95
SUPRADRIVE 105Mb (11ms) £499.95

GVP SERIES II HARD DRIVES

Quality drives with the ability to add up to 8 Meg of extra Ram on board
(A1500/2000)
52Mb (11ms) version £389.95
105Mb (11ms) version £519.95

SIMMS Modules – £69.95 per 2 meg

QUANTUM DRIVE MECHANISMS

Quality bare SCSI quantum drives

52Mb (11ms) version £199.95
105Mb (11ms) version £299.95

SUPRAMODEM 2400

Fully Hayes compatible modem. Runs at 300, 1200 or 2400 baud rates. Own power supply.
Comes complete with FREE PD Comms software
MJC PRICE £99.95

COURIER DELIVERY AVAILABLE FROM JUST £2.00 – ASK FOR DETAILS

WORDPROCESSORS

Kind Words 2	£29.95
WordWorth V1.1	£79.95

NEW PROTEXT Version 5.5

New version of this best selling word processor. Now includes new dictionary files and Thesaurus very fast for serious WP applications. (1 Meg)
MJC PRICE £99.95
(due for release 1st October)

Protext V4.3 ½ price	£49.95
Prodata New - V1.2 Amiga	£64.95

AMIGA EDUCATIONAL

Fun School 2		Fun School 3	
Fun School 2 under 6	12.95	Fun School 3 under 5	15.95
Fun School 2 6 to 8	12.95	Fun School 3 5 to 7	15.95
Fun School 2 over 8	12.95	Fun School 3 over 7	15.95

Fun School 4 Please call for prices

LCL Software		Kosmos Software	
Primary Maths Course	19.95	Junior Quiz 6 to 11	14.95
Micro Maths GCSE	19.95	Maths Adventure 6-14	19.95
Micro English GCSE	19.95	French Mistress	14.95
Micro French GCSE	19.95	German Master	14.95

Learn to Read With Prof – by Prisma, is designed to teach a sight vocabulary of 63 words and is aimed at 4+ years. The pack includes 5 small reading books and a cassette. **MJC PRICE £19.95**

DESKTOP PUBLISHING

Pagesetter 2 - (Free Clip Art)	£44.95
Pagestream v2.1	£139.95
Pro Page New v2.1	£149.95

The above programs all require at least 1 Meg and 2 Drives/Hard recommended.

VIDEO TITLING/PRESENTATION

Home Titler	£34.95
Big Altergative Scroller	£42.95
Broadcast Titler II	£165.00
Broadcast Font Pack	£89.95
Broadcast Font Enhancer Pack	£89.95

ZVP VIDEO STUDIO

Great Video production package - Call for details
(Requires 1 Meg & 2 Drives)
MJC PRICE £89.95

RENDALE 8802 GENLOCK

Great value Genlock offering both Foreground and Background modes.
MJC PRICE £159.95
8802 MODE SWITCH BOX - £29.95

GRAPHICS

Pixmate	£34.95
Digi Paint 3	£44.95
3D Construction Kit	£37.95
Digiview 4 Gold	£59.95
Deluxe Paint 3	£39.95
Disney Animation Studio	£74.95

DELUXE PAINT 4 Now available
MJC PRICE £59.95

DELUXE PAINT 3 VIDEO TUTORIAL

Nearly 3 hours of "how to" with DPaint 3
MJC PRICE £17.95

AMOS – The Creator

AMOS V1.2 – The Language	£33.95
AMOS COMPILER – now available	£21.95
AMOS 3D – now available	£24.95

SOUND/MUSIC

Stereo Master Amiga	£29.95
Techno Sound Turbo (Stereo)	£29.95
Harmoni – Sequencer	£29.95

THE MIDI CONNECTOR

Featuring Midi IN, 2 x Midi Out, Midi Thru and Serial port Thru + 2 cables.
MJC PRICE JUST £14.95

MISCELLANEOUS

INFOFILE	£29.95
MAXIPLAN PLUS	£34.95
PERSONAL FINANCE MANAGER	£22.95
GB ROUTE PLUS (1Mb)	£59.95
HOME ACCOUNTS 2	£39.95

VIDI AMIGA

VIDI COLOUR SOLUTION
Vidi Colour package - including Vidi Digitiser, Vidichrome and Photon Paint.
MJC PRICE £89.95

RGB SPLITTER – For use with Vidichrome or Digiview (includes PSU)
MJC PRICE £59.95

COMPLETE COLOUR SOLUTION
Package includes Vidi Amiga, Vidichrome and the RGB Splitter for a complete colour digitising outfit. NOTE: For best colour pictures you require a video camera or perfect still frame VCR.
MJC PRICE £134.95

VISA

Remember – prices include VAT & delivery

MasterCard

of a commercial program under the guise of public domain?

Although I shall not mention the magazine by name I refer to the Red Sector Demo Maker. This, together with the additional utility disks, is listed in a majority of Public Domain advertisements.

I recently purchased the Demo Maker, expansion set and vector object editor disks locally. All three are only supplied together with an instruction book and are issued by Data Becker GmbH of Merowingerstr 30, 4000 Dusseldorf 1. This company is also responsible for serious software such as BeckerText and numerous books covering the full range of professional Amiga use.

Each public domain software library is therefore depriving DataBecker of a total of £64.47. More to the point, the offending CoverDisk has just cost DataBecker £1,849,436.30. As all this software has been issued during the last two years it would hardly appear to be a case of the programs having gone past their sell by date.

With all magazines openly supporting FAST and ELSPA the word is that even to hold pirated software is an illegal act. If this is so it is beyond my comprehension as to how the instant creation of 78,266 criminals can be justified. It certainly takes the steam out of the present argument with regard to full games as CoverDisks.

Of course, all the above can be verified with a current issue of the ISBN catalogue – then again you could just look at the CoverDisk in question. They even have the Data Becker logo as one of the sample graphics to use with the demo maker!

S P Woodward, 12 AD Regd RA, BFPO 20

Hmm... all sounds a bit strange! Have you checked with DataBecker or Red Sector to see if any deal has been struck with the magazine concerned?

We Amiga magazines might compete, but we are all very professional. I find it unlikely that another mag would just rip off a commercial program.

I think you will find that there will have been some form of agreement in place before the disk appeared. If not, let us and the magazine concerned know.

The funky bunch

Yes, I know this is *Amiga Computing* not *Music Week*, but I feel I must put a few facts straight. It may surprise Mr Ove Gustavsson (ESP, October 1991) that Sinead O'Connor was certainly not the first person to use the *Funky Drummer* sample.

Originally the breakbeat from an old James Brown record (titled strangely enough "Funky Drummer"), it has become the most used drum sample in modern music.

Literally dozens of records have nicked it, eg (off the top of my head) *Ghetto Heaven* by the Family Strand, *I'm Not the Man I Used to Be* by Fine Young Cannibals, *Waiting for that Day* by George Michael and even *Wouldn't Change a Thing* by Kylie Minogue. To say Sinead O'Connor originated that sample is like saying SAW invented classical music!

Finally, bearing in mind that George Michael recently paid out royalties to James Brown for use of that sample and, to the best of my knowledge, Miss O'Connor has not, I wonder if Mr Gustavsson's views on musical copyright are still as strong?

I Am Stretched On Your Grave by Sinead O'Connor is by far the most dull and unoriginal use of that sample I've ever heard.

B Turnock, County Durham,

Right, glad you got that off your chest. I think we will publish the Gallup Top 40 music charts from next month!

A secure future

For my final project for GCSE Design and Communications I have chosen to study computer security. This will involve researching the various ways to prevent a computer from being stolen.

As an owner of an Amiga 500 I feel that the Amiga is the ideal computer to use to design a solution to this problem. Unlike the PC, for which a range of security devices exist, to my knowledge the Amiga has none.

The culmination of this project will result in a design for a security device. I have compiled a list of questions for a survey to help in my research.

Should you be kind enough to print this letter, would you include my full address to facilitate replies from those of your readers who might like to participate in this survey?

A Matthews, 94 Chapel Fields, Charter House Road, Godalming GU7 2AA

I print your address with pleasure! Unfortunately I can't print the questions though, there just isn't enough space.

Anyone who wants to help out should write to the address above for a copy of the questionnaire.

Do let me know how you get on, and send in details of the security device you eventually come up with – we might even do a review!

PD praise

It's me again, from Burmans PD (issue 39). I'd like to thank you not only on my behalf, but for the 100 or so members whom the letter provoked into joining. I'm sure that they are all happy having joined the cheapest PD company around and are grateful to you for putting them on the right track.

Business has picked up and I'm doing better now than I have ever done! Thanks to *Amiga Computing*.

Before I go, I wonder if any other *AC* readers have noticed that you have got bigger by 2cm?

R Burman, Middlesex

I'm glad to hear that your library is still going from strength to strength. Do me a favour and send some of your latest releases to our PD pundit, Daniel Whitehead, at the usual address. It would be good to get you some coverage in our Public Sector.

Just think, if I'd printed your address this time, you might have got another hundred members.

CDTV turkey?

Why oh why oh why, is the structure of my chromosomes... (ha, joke).

But seriously, can you answer a couple of little questions about the Amiga?

Everyone goes on about the Amiga being the only home computer with the ability to multitask. Now I'm not putting it down – I've owned one for three years and wouldn't part with it – but is it not a fact that true multitasking can only occur on a machine when there are as many processors as processes? So would it not be true to say that it only gives virtual multitasking through processor sharing?

Secondly, why did Commodore spend all that cash on developing the CDTV system, only to decide to also release a keyboard for it (soon) turning it into an Amiga, and release a CD-ROM drive for the Amiga turning it into a CDTV system?

Would the money not have been better spent on me (a poor student) or just on the development of a CD-ROM drive for the Amiga? Or a hardware ZX81 emulator? Or an easy way to fit an upgrade on an ST?

A lot of money to create two very similar things. Is that not quite silly?

Clubbing in

During a conversation with the editor today, he suggested I write to you to let you know what we are all about.

We are four Amiga users who decided to start a club after realising that when people first buy their computers there is not much help available in the way of manual translations or guidance. There is also very little information available to say which programs would be best suited to people's needs. We are not prejudiced and will take any member with a 16-bit machine. If they have not got a machine then we can find then the cheapest in the area.

We have managed to gain the support of the local retailers covering Eastbourne, Tunbridge Wells, Bexhill and Hastings including Pace Shareware, Senlac PD and M.G.A. Softcat of Rye, who have agreed to give club members discounts on all hard and software.

We produce a monthly magazine on an Amiga 500 with a 1500 upgrade using Pagesetter 2, printed on the cheapest Amstrad and photocopied on a Ricoh, for sale to the general public at 50p, which our members get free with a monthly disk. All profits go back into the club. The local reference library has asked if we will supply them with a copy on a regular basis.

We have been in existence since July '91 for the purpose of getting other 16-bit users together to exchange information and assist others less capable. We will be arranging social evenings, outings, tutorials and competition nights. We also eventually aim to help the community such as schools, the disabled institutes and anyone else in need of help with their computers.

Until then we need as many members as possible.

S Petrie, The Computer Club, 16 Laton Road, Hastings TN34 2ES

Well, if you have spoken to the editor it's a jobsworth situation! I have printed your address – hopefully anyone in the area who is interested will contact you.

Your magazine is very good, it just goes to show what can be done with limited resources.

SCHOOL SOFTWARE LTD.



THE BEST IN EDUCATION

HOW TO ORDER
1. Post your order.
2. Fax your order.
3. Ring credit card number.
4. Ring for advice.
5. Ask your dealer to order.

Prices:
IBM 51/4 or 31/2, ST & STE, AMIGA......£22.95
CPC, PCW, CBM (disks)........................£16.95
FREE CATALOGUE

THE THREE BEARS (5-10)
IBM, ST, CPC, AMIGA.
Superbly reviewed educational adventure. Develops reading and imagination.

MAGIC MATHS (4-8)
IBM, PCW, ST, AMIGA.
Highly rated primary maths programs. Selection of games. Add and Subtract.

MATHS MANIA (8-12)
IBM, PCW, ST, AMIGA.
"The best primary programs I have yet seen." Multiply, Divide, Maths Skills.

BETTER SPELLING (8-18)
IBM, ST, PCW, AMIGA, CPC, BBC, CBM(D).
Highly acclaimed tutor. Received excellent reviews. Challenging.

BETTER MATHS (12-16 GCSE)
IBM, PCW, ST, AMIGA, CPC, CBM(D).
Very comprehensive coverage of all the major aspects of maths for this age group. Excellent.

JUNIOR TYPIST (4-10)
IBM, ST, AMIGA.
Keyboard trainer which helps spelling.

ORDER DIRECT TO:
School Software Ltd., Tait Business Centre, Dominic Street, Limerick, Ireland.
Tel: (U.K.) 010 353-61-415399.
Fax Orders: 010 353-61-419755.
Credit Card Hotline (U.K.): 010 353-61-415399.
Others Tel: 010 353-61-415399.

Access/Mastercard/Eurocard/Barclaycard/Visa No.

Expiry Date.............................. Cheque/PO
My machine..........
Titles..........
....
Name..........
Address..........

GLOBAL SOFTWARE

3D Soccer	18.99
688 Attack Sub	17.99
A10 Tank Killer	22.99
Accolade Sports	20.99
Action Stations (1 Meg)	21.99
Advanced Destroyer Sim	19.99
Amnios	17.99
Armalyte	17.99
Armour Geddon	18.99
Atonimo	18.99
Backgammon	18.99
Barbarian	7.99
Bat	20.99
Battle Command	17.99
Battle Chess	17.99
Bill & Teds Adventure	19.99
Billy The Kid	18.99
Blue Max	20.99
Brian Cloughs Soccer	17.99
Buck Rogers	21.99
Cadavar	18.99
Captive	17.99
Champion of the Raj	17.99
Chess Player 2150	18.99
Chuck Rock	17.99
Chuck Yeagar	18.99
Cluedo Master Detective	18.99
Coin-Op Hits 2	20.99

Conflict In Middle East	20.99
Corporation	18.99
Cricket	17.99
Cruise For A Corpse	18.99
Cyberball	17.99
Das Boat	22.99
Deluxe Strip Poker	8.99
Disk	17.99
Dragon Wars	18.99
Dragons Lair 2	27.99
Duck Tales	17.99
Elite	15.99
Encounter	16.99
Eye Of The Beholder	20.99
F-23	20.99
F-15 Strike Eagle 2 (1)	23.99
F-16 Combat Pilot	18.99
F-19 Stealth Fighter	19.99
F-29 Retaliator	18.99
Fists Of Fury	19.99
Flight Sim 2	23.99
Full Blast	21.99
Full Contact	7.99
Gauntlet 3	18.99
Gem X	17.99
Giants	19.99
Gods	19.99
Golden Axe	16.99

Halls Of Montezuma	18.99
Heroes	21.99
Heroquest	17.99
Hunt Red October	17.99
Indianapolis 500	17.99
From The Desert	23.99
James Pond	17.99
J. White Snooker	19.99
Katakis	18.99
Kick Off 2	16.99
Leisure Suit 3	25.99
Life and Death	18.99
Lotus Esprit	17.99
M1 Tank Platoon	19.99
Manchester United	17.99
Mercs	19.99
Midwinter	19.99
Mig 29	24.99
Mighty Bomb Jack	18.99
Monty Python	16.99
Moon Base	25.99
Navy S.E.A.L.S.	19.99
Ninja Remix	17.99
Nuclear War	18.99
Operation Stealth	17.99
PGA Tour Golf	18.99
Pirates	18.99
Populous	17.99

Power Pack	21.99
Power Up	21.99
PP Hammer	17.99
Predator 2	17.99
Prehistorik	18.99
Pro Tennis Tour 2	17.99
Puggsy	24.99
RBI 2	20.99
Railroad Tycoon	23.99
Red Lightning	21.99
Rick Dangerous 2	17.99
Risk	18.99
Robocop 2	17.99
Scrabble Deluxe	17.99
Secret of Monkey Island	19.99
Sega Master Mix	20.99
Silent Service	18.99
Sim City	19.99
Sim City/Populous	19.99
Skate or Die	18.99
Space Quest 4	25.99
Speedball 2	18.99
Spirit of Excalibur	19.99
Spy Who Loved Me	16.99
Squash	18.99
Stellar 7	17.99
Steve Davis Snooker	7.99
Stratigo	19.99
Stitch Blade 2	18.99
Toki	17.99
Tornado Ground Attack	7.99
Toyota Celica GT Rally	17.99
Trivial Pursuit	18.99
Turrican 2	17.99
Viz	17.99
Wheels of Fire	19.99

BUDGET

3D Pool	7.99
A.P.B.	7.99
After Burner	7.99
Barbarian 2	7.99
Blazing Thunder	6.99
California Games	7.99
Carrier Command	7.99
Conflict	4.99
Crazy Cars	6.99
Double Dragon	7.99
Drum Studio	4.99
Fantasy World Dizzy	6.99
Ferrari Formula 1	8.99
Gauntlet 2	7.99
Hard Driving	5.99
I.K.+	7.99
Impossible Mission 2	6.99
Kult	6.99
Last Ninja 2	7.99
Licence To Kill	7.99
Lombard RAC Rally	7.99
Outrun	6.99
Platoon	7.99
Populous Data D	8.99
Pro Tennis	4.99
R-Type	6.99
Rambo 3	7.99
Speedball	7.99
Strikeforce Harrier	8.99
Super Hang On	7.99
Switch Blade	7.99
Toobin	6.99
Treasure Island Dizzy	4.99
Ultimate Darts	6.99
Wacky Darts	6.99
World Class Leaderboard	7.99
Xenon	6.99
Xenon 2 Megablast	7.99
Yogi's Great Escape	7.99
Zork 3	7.99

Business Software & Accessories available on request

All titles, all formats available on request

GLOBAL SOFTWARE
10 Charterhouse, Great Mistley, Basildon, Essex, SS16 4BG. Tel: 0268 288434

Cheques/Postal Orders payable to Global Software
Please add 75p P&P per item UK only. Europe add £2.00 per item.
Other add £3.00 per item.
All items subject to availability. All prices subject to change without prior notice. Please allow cheques to clear

of a commercial program under the guise of public domain?

Although I shall not mention the magazine by name I refer to the Red Sector Demo Maker. This, together with the additional utility disks, is listed in a majority of Public Domain advertisements.

I recently purchased the Demo Maker, expansion set and vector object editor disks locally. All three are only supplied together with an instruction book and are issued by Data Becker GmbH of Merowingerstr 30, 4000 Dusseldorf 1. This company is also responsible for serious software such as BeckerText and numerous books covering the full range of professional Amiga use.

Each public domain software library is therefore depriving DataBecker of a total of £64.47. More to the point, the offending CoverDisk has just cost DataBecker £1,849,436.30. As all this software has been issued during the last two years it would hardly appear to be a case of the programs having gone past their sell by date.

With all magazines openly supporting FAST and ELSPA the word is that even to hold pirated software is an illegal act. If this is so it is beyond my comprehension as to how the instant creation of 78,266 criminals can be justified. It certainly takes the steam out of the present argument with regard to full games as CoverDisks.

Of course, all the above can be verified with a current issue of the ISBN catalogue – then again you could just look at the CoverDisk in question. They even have the Data Becker logo as one of the sample graphics to use with the demo maker!

S P Woodward, 12 AD Regd RA, BFPO 20

Hmm... all sounds a bit strange! Have you checked with DataBecker or Red Sector to see if any deal has been struck with the magazine concerned?

We Amiga magazines might compete, but we are all very professional. I find it unlikely that another mag would just rip off a commercial program.

I think you will find that there will have been some form of agreement in place before the disk appeared. If not, let us and the magazine concerned know.

A secure future

For my final project for GCSE Design and Communications I have chosen to study computer security. This will involve researching the various ways to prevent a computer from being stolen.

As an owner of an Amiga 500 I feel that the Amiga is the ideal computer to use to design a solution to this problem. Unlike the PC, for which a range of security devices exist, to my knowledge the Amiga has none.

The culmination of this project will result in a design for a security device. I have compiled a list of questions for a survey to help in my research.

Should you be kind enough to print this letter, would you include my full address to facilitate replies from those of your readers who might like to participate in this survey?

A Matthews, 94 Chapel Fields, Charter House Road, Godalming GU7 2AA

I print your address with pleasure! Unfortunately I can't print the questions though, there just isn't enough space.

Anyone who wants to help out should write to the address above for a copy of the questionnaire.

Do let me know how you get on, and send in details of the security device you eventually come up with – we might even do a review!

Programming pointers

I would like to learn computer programming in Cobol on my Amiga. It must be possible. The Amiga is capable of anything, or so they say. Can you help me on this matter – what do I need, where can I get the equipment, and how much roughly will it cost?

I've tried asking several companies who do courses in Cobol programming, but all they seem to do is try and sell me an IBM-compatible Amstrad computer and course work for hundreds or even thousands of pounds.

I would appreciate any advice that you can give me.

A S Jobe, Portsmouth

I've published letters like this before, asking for help, with no response.

Come on guys 'n' gals, is there a PD version of Cobol hiding out there?

The first person to locate and send me one will get a prize. There, can't say fairer than that.

Ezra online

Ezra Surf can be contacted on a whole host of bulletin boards and conferencing systems. If you have anything to say, get it off your chest online!

AC also has its own Fidonet echo which is being carried by BBS systems throughout Europe. Any Fido sysops interested in hooking up should collect AMIGA_COMP off the backbone.

If you are experiencing difficulty, please contact Tony Miller, sysop of our home board – 01 for Amiga.

Additionally our mailman with the most, Ezra Surf, hangs out on the following services:

Service	Account number
Prestel	999800263
Telecom Gold	74:MIK911
CiX	amigacomputing
CompuServe	70007,4734
The Direct Connection	uad1132
01 for Amiga	Amiga Computing

PD praise

It's me again, from Burmans PD (issue 39). I'd like to thank you not only on my behalf, but for the 100 or so members whom the letter provoked into joining. I'm sure that they are all happy having joined the cheapest PD company around and are grateful to you for putting them on the right track.

Business has picked up and I'm doing better now than I have ever done! Thanks to *Amiga Computing*.

Before I go, I wonder if any other *AC* readers have noticed that you have got bigger by 2cm?

R Burman, Middlesex

I'm glad to hear that your library is still going from strength to strength. Do me a favour and send some of your latest releases to our PD pundit, Daniel Whitehead, at the usual address. It would be good to get you some coverage in our Public Sector.

Just think, if I'd printed your address this time, you might have got another hundred members.

CDTV turkey?

Why oh why oh why, is the structure of my chromo-

AMIGA COMPUTING CONTACTS

It's not what you know – it's who you know!

TECHNICAL PROBLEMS

We are happy to answer your technical problems in our ACAS section. Send your letters to **ACAS** at the address below

NEWSDESK

If you have a news story, send it to **John Butters** at the address below. If your story is URGENT call him on **0625 878888** during office hours

GALLERY

We are always on the look-out for good Amiga art. Send your work (as an IFF) to **Amiga Gallery** at the address below

EZRA SURF

Got something to tell other *AC* readers? Send your general letters to **Ezra Surf's Postbag (ESP)** at the address below

COMPETITIONS

Enter competitions using the details on the form. If you have won a competition and not received a prize contact **Jonathan Maddock** on 0625 878888

PUBLIC DOMAIN SUBMISSIONS

PD libraries are welcome to submit their latest releases. Submissions should include a detailed list of what each disk contains. Jiffy bags to **Daniel Whitehead**

ALMANAC

Our Almanac authors can be contacted via *AC*. Please mark any correspondence clearly and send it to the address below

ADVERTISMENT PROBLEMS

If you have had a problem with one of our advertisers please contact **Martin Fitzgerald** on 0625 878888 or write to him at the address below

FAULTY COVERDISKS

If your CoverDisk is faulty send it to : **Stanley Precision,** Unit F, Cavendish Courtyard, Sallow Road, Welldon North Industrial Estate, Corby, Northants NN17 1JX

SUBSCRIPTIONS & BACK ISSUES

To subscribe or order back issues please use the form at the back of this issue or call **Europress Direct** on 051 357 1275. Please note we only hold back issues for six months

THE WORKSTATION

Technical enquiries about the Workstation should be sent IN WRITING to **Workstation Support** at the address below. Please return faulty disks to the supplier

COMPLAINTS

If you have a serious complaint about the editorial content of AC please write to the **Editor, Eddie McKendrick** at the address below

TELEPHONE CALLS

Except in the situations listed above we **cannot accept telephone enquiries.** Please write in to one of the departments listed in this panel

WRITS'N'BITS

Any legal enquiries should be directed to our publisher, **Richard Williams,** at the address below. He can also be contacted on 0625 878888

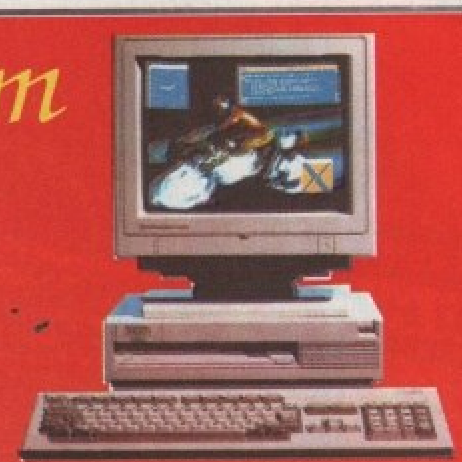
SAVE THOSE SAEs!

Please don't send us SAEs, we can't promise to reply to every letter so it really is a waste of your stamp. Sorry!

AMIGA COMPUTING
EUROPA HOUSE
ADLINGTON PARK
MACCLESFIELD
SK10 4NP


DOWN GAME FREAK ALLEY CONSOLES WILL NEVER BE THE SAME...
GAMES ARE IN YOUR VEINS, PULSING WITH EVERY HEARTBEAT, RACING THROUGH YOUR SYSTEM LIKE A THRILLING VIRUS... NO PLACE TO GO, NO PLACE TO HIDE FROM THE POWER OF THE GAMES FORCE... THE NEW SEGA FORCE
NEW!
100% SEGA — BRITAIN'S BEST UNOFFICIAL SEGA GAMES MAG!
SEGA FORCE
WIN A TOEJAM & EARLE RAD RAP ON CASSETTE! IT'S BAD STUFF...YO!
MEGA DRIVE
MASTER SYSTEM
GAME GEAR
POW!
BLASTING IN WITH PITFIGHTER!
QUACKTALES INTO CD ROM MS SONIC & AS MANY PLAYING TIPS AS YOU CAN EAT!
DANGER!
IN MARSHAL ROSENTHAL'S USA
£1.95 No.1 December 1991
europress IMPACT
JOIN THE GAMING DEAD-HEAD SET AT ALL GOOD NEWSAGENTS FROM 12 DECEMBER, AND PAY YER DUES, THEY'RE ONLY £1.95. SO BE THERE, READY FOR THE GAMING EVENT OF THE DECADE!
europress IMPACT

Merry Christmas from Phantastic Games



103a St John's Hill, London SW11 1SY
Telephone: 071-738 0617

VISA · Access · MasterCard · EUROCARD

The first 100 Customers to place an order will receive a poster completely F.O.C. – Quote ref:- WS1

SOFTWARE

4D Boxing	£18.50	F-15 Strike Eagle 2	£24.99	Railroad Tycoon	£24.99
Addicted To Fun	£14.50	Flight Of The Intruder	£24.99	Renegade Interceptor	£25.99
Alien Breed	£18.50	Formula 1 3D	£18.50	Thunderhawk	£22.50
Armalyte	£18.50	Hunter	£21.50	Virtual Reality	£24.99
Battle Chess 2	£18.50	Kings Quest 5	£28.99	Zone Warrior	£18.50
Blade Warrior	£18.50	Life & Death	£18.50	Adv Military - CDTV	£25.50
Brain Blasters	£18.50	Midwinter 2	£24.99	CD Remix - CDTV	£25.50
Cruise For A Corpse	£18.50	Outzone	£18.50	Lemmings - CDTV	£25.50
Cybercon 3	£18.50	PP Hammer	£17.99	Psycho Killer - CDTV	£25.50
Double Double Bill	£25.99	R Type 2	£18.50	Sim City - CDTV	£25.50

HARDWARE & PERIPHERALS

Commodore A500 Cartoon Classics +	**£375.00**
Commodore A500 Standard Pack	£335.00
Comodore CDTV	£475.00
Amiga 1/2 Meg Memory Upgrades	£35.99
Amiga External Drives	£54.99
Amiga 1 1/2 Meg Mem Upgrades	Special £79.99
Stingray Joysticks Standard & Auto	£10.99
Zipsticks	£13.99
Comp Pro 5000 (Multi)	£9.99
Speedking Standard	£9.99
Speedking Auto	£10.99
Quickjoy Topstars	£18.99
Challenger Cables	£23.99

Phantastic Games would like to take this opportunity to thank all of our customers through 1991. Also to thank: Bob, Steve, Tony, Martin Dekker, Kevin Newton. All at Leisuresoft, Centresoft, SPL – Merry Christmas everybody & A Happy New Year.

Post & Packing: Free on 2 or more Software titles. At cost on Hardware.

Delivery: Please allow 7-10 days on Software. 10-14 days on Hardware.

Ask about our Gold Customer Club which entitles you to even better discounts!!

85p EACH! **THE P.D. SHOP!** 85p EACH!

AMIGA PUBLIC DOMAIN LIBRARY

Most titles available

All at 85p per disk + P&P

Blank disks 35p each

Lockable 100 capacity disk box £4.50 + P&P

Please make cheques payable to John Burton

111 Leek Road, Cheadle, Staffs ST10 2EF

HELP!! To AMIGA Users

Want an Amiga for Christmas, **BUT** unsure how to use it?
Recently bought an Amiga, **BUT** have unanswered questions?
Want to know more about the Amiga Hardware & Software,
BUT don't know how to go about it?

THEN CALL JJc!

We can answer your **"BUTS"** by a training course of 12 Disks, at your leisure in your own home.
Special Christmas Discount £50.00 complete course. Alternatively try a month at £5.00 – but we know you'll want more!!!

JJc, PO Box 19, High Wycombe, Bucks, HP11 1UF. Tel: 0494 883347

J J c

A500's ★ FIXED PRICE REPAIRS ★ ST's

£49.95 Includes Parts, Labour, Full Service & Next Day Courier Delivery.
24 Hour Turnaround, 6 Month Warranty
Free Software (Limited Offer)

Should Disc Drive or Keyboard Require Replacing, Extra Amount Payable

ST Power Supply Repair/Exchange £25.00

Repairs to Printers, Monitors & Most Home Computers
£15.00 per Hour Plus Parts & Carriage

Collection Service £15.00 Extra – 20% Dealer Discount

All Repairs Accepted Subject to Our Terms of Trade

GJS COMPUTER SERVICES

37 Bamford Street, Clayton, Manchester, M11 4FE
(Callers welcome by appointment only)
Tel: 061 231 6608 Fax: 061 223 7531

ANALOGIC ANALOGIC ANALOGIC

Analogic Computers (UK) Ltd

152 Latchmere Road,
Kingston-upon-Thames, Surrey KT2 5TU

Tel: 9am-7pm Mon to Sat
Tel: (081) 546 9575
Tel/Fax: (081) 541 4671

COMPUTERS

Amiga A500 Plus Cartoon Classics Pack (1Mb)	£359.00

MONITORS

Protar Visto Colour Monitor + Cable	£235.00
Philips 15" Colour TV/Monitor with remote control + Scart Cable	£239.00
Philips 15" Colour TV/Monitor as above + Teletext	£269.00

ACCESSORIES

512K RAM expansion for A500 Plus	£34.95
1 Meg RAM expansion for A500 Plus	£54.95
512K RAM expansion with clock for A500	£29.95
Dust Cover	£4.95
Mouse Mat	£4.95
Super Pro Zip Stick	£14.95
A500 Power Supply	£44.95

AMIGA A500 REPAIRS without diagnostic fees
* Fixed Charges * Fast Turnaround **£49.95**

* We provide pickup service for repairs for only £5.00 + VAT
* All prices include VAT and NEXT DAY DELIVERY subject to availability
* Fixed charge for repairs does not include Disk Drive Replacement & keyboard
* All prices subject to change without notice

-D J -W MICROSYSTEMS

A Division of DJW Enterprises

AMIGA 500's from £309.95

AMIGA 1500's from £669.95

External 3.5" Drives from £65.95

AMIGA 3000's from £1899.95

Hard Drives from £279.95

Memory Expansions from £24.95

BLOW YOUR MIND
Ask about the Black Box Graphics System.
Serious callers only please!

DJW MICROSYSTEMS
50 Belle Vue Road, Shrewsbury Shropshire, SY3 7LR.
Tel. 0743 244752

EMPDL

AMIGA/ST PD. LIBRARY. Open 6 days 9am-9pm

EMPDL GAMES PACK. A 10 disk collection of 47 PD games	Now only £11.00
EMPDL DEMO PACK. A 10 disk collection of demos.	Now only £11.00
EMPDL MUSIC PACK. A 10 disk collection of music disks.	Now only £11.00
EMPDL UTILITY PACK. A 10 disk collection of utilities.	Now only £11.00

HOME MANAGEMENT PACK. A 2 disk set of the most useful home utilities.
TV GRAPHICS. 2 disks of backgrounds and fonts for video enthusiasts.
VIDEO APPLICATIONS. 2 disks set of utilities to accompany TV Graphics.
SMOVIE. A utility to display a text file on video in many ways.

UNDERSTANDING AMOS Tutorial disk	SPECTRAPAINT. Paint program
LEARN AND PLAY. 2 children's disks.	FLEXI BASE Database

DADDYKINS 7 Update. Disk Salvage DF0-DF1. Now even better.
DADDYKINS 8 Update. Word processor. Now with Spelling checker.

MASTER VIRUS KILLER.	MED V3 Music utility.
STAR TREK. RICHTER VERSION 2 disks.	CHECKERS Draughts game.
DRAGONS CAVE. Box pushing game.	FISH GAMES 5 disk set of games.
TBAG GAMES Games disk.	MISSILE COMMAND Amos version.
PIXIE KINGDOM 2 Disk adventure.	DUNGEON DELVER 2 disk adventure.
PICK UP A PUZZLE 1 Meg jigsaw.	PICK UP A PUZZLE 2 data disks.
ARCADIA Breakout type game.	BALOONACY 1 Meg bomber game.
FRUIT MACHINE 1 Meg game.	PAIR CRAZY Concentration game.
CROSSFIRE 1 Meg strategy game.	RINGS OF ZON Adventure game.
BILLY THE KID 1 Meg animation.	CHAOS ROCK 1 Meg demo.
CHAOS IN MOTION 2 disk demo.	KYLIE MINOGUE 2 disk demo.
ANARCHY SYSTEM VIOLATION Demo.	THRASH DEMO Demo.
AMAZING TUNES II. 3 disk music demo.	GOLDFIRE MEGADEMO Demo.
GIANTS MEGADEMO 2 disk demo.	BRAINSTORM MEGADEMO 2 disk demo.
TRILOGY GIGADEMO 2 disk demo.	CAVE MEGADEMO Demo.
FASHIONATING MEGADEMO Demo.	HARDCRACK MEGADEMO Demo.

We also stock all Amos Licenceware, Fish Disks, TBag. Also official "Newsflash" Dealer

All our disks use branded media and are virus free and despatched by first class post on day of receipt. Disk prices £1.50 per disk.
Please add 50p P&P for orders less than £5.00

CATALOGUE GIVING DETAILS OF OVER 3000 DISKS 75p FREE WITH ALL ORDERS.

Cheques & PO's Payable to:

EMPDL

(Dept A) 54 Watnall Road, Hucknall, Nottingham.
NG15 7LE. Tel: 0602 630071

Printer out of puff?
Computer cracking up?
We're here to help!

Write to ACAS, Amiga Computing, Europa House, Adlington Park, Macclesfield SK10 4NP

Save your saes please – we can't reply personally

A full calendar

I've been experiencing problems with QCal, the diary program you gave away on the December 1990 disk.

The problem occurs when trying to add new entries. An error message is produced saying "maximum number of entries reached" even though the disk is less than half full. Is there a problem with the program?

R F Upham, Camberley

There is no real problem as such. You've simply packed so much information into your QCal that the poor program can no longer cope. I'm not overfamiliar with QCal, as it was on a disk I didn't compile. However, I've experimented with a copy and found that several months' worth of diary dates can be handled with ease.

If you run up against the numbers barrier in future, I can only suggest that you purge all your old entries and prune the most distant future appointments.

Xerox blues

My problem is with my printer, which is a Xerox 4020 colour inkjet. I cannot get bold or italics, and sometimes the underline does not work properly when using Scribble!

Also, when I take a graphic print of, say, Rombo's Complete Colour Solution the output is too dark and the colours a bit murky. When I carry out a self-test on the printer, everything appears to be fine. Any advice would be appreciated, as I am at a loss as to what to try now.

Gordon McLeod, Lanarkshire

You seem to be using the wrong printer driver and have missed the point of Workbench's preferences program. You are in luck because there is a printer driver specifically for the Xerox 4020, which should be available from better PD libraries. Phone round a few until you find one with a disk of printer drivers containing the 4020 driver.

As for your murky colours, the best way to sort these out would be through the preferences program's Graphics1 and Graphics 2 screens. Use these to experiment with the density and threshold settings until you find a combination to suit your printer. You will certainly have to lower the threshold setting if your colours are too dark.

Knackered keyboard?

I have owned an A500 for about 18 months and apart from my internal drive packing up (thankfully inside my warranty), I've had few problems. Recently however, I've been having strife with my keyboard.

In the last couple of weeks the keyboard has locked up and the Caps Lock light has started to flash. Sometimes the keyboard goes dead without the Caps Lock light flashing, but both symptoms require the machine to be rebooted, which seems to cure it for a while.

If I am lucky, it doesn't happen at all. Can you tell me what the problem might be and how I can cure it?

K Kendall, Aberdeen

There are two possibilities. Either you have a virus, which is unlikely given the intermittent nature of the problem, or your machine has a hardware fault. Try a virus checker just to make sure, but if this doesn't solve the problem (which I doubt it will), the only option is to have your machine checked out by an engineer. FMG, Commodore's national repair centre, can be reached on 0733 391234. They currently charge a flat rate of £57.45 for A500 repairs. Alternatively, you could try a local Commodore dealer, but if the machine has to be repaired, they're more than likely to send it to FMG in any case, and would probably charge you a few quid on top for their time.

Nordic keyboard

I read your reply to T A Seaman in the September issue, and I have to correct you on saying the Checkmate Digital Unit is the only keyboard add-on for the Amiga. I recently saw a new keyboard unit in a Swedish computer mag.

It was originally meant for the PC, but it is easily fitted to the Amiga (both 500 and 2000 models). The keyboard has a built in trackball, and costs 1,400 Swedish Kroner (about £130).

The Swedish distributor is Chara Data, and they can be reached on 0381 10400.

Daniel Vedoy, Norway

I hope that the keyboard has been modified to suit the Amiga. You can't just plug a PC keyboard into the Commodore machine and expect it to work. If the company involved has carried out its own development on a PC keyboard, the result should be of a better quality than Checkmate's keyboard housing – though it's also well over twice as expensive.

CheckSums

I am quite new to the Amiga world and do not know very much about viruses, but I am having trouble with them. I saw an offer for a "virus killer" free with every game so I sent off for a few games and received the virus killer.

I then rushed off to my computer to try it out on some disks that I knew were infected, but when they were checked a message came up "Error validating disk, checksum error". I thought it was a fault with the disk, so I reset the machine and booted up the disk with no problems.

I then received your great CoverDisk with Virus Checker v5.26. "Great," I thought, "a decent killer," but when I tried to check a disk the same thing happened as before. Could you please tell me what I'm doing wrong?

Simon Garrington, Sheffield

The checksum is a device used by the Amiga to ensure a block of data has not been corrupted. When the block is written to disk, a calculation is carried out using the data it contains and the result, called a checksum, is added to the end of the block.

To verify that a block is OK, the Amiga will check to make sure the data in the block, when recalculated, results in the same checksum. If, however, a virus has scuppered one or more of your blocks, or the disk you are checking is a commercial release and not an AmigaDOS disk (ie one that opens a CLI or Workbench), the sums won't add up.

Make sure you are not trying to check commercial games software. Virus killers are of little use in this case because they are designed to search through AmigaDOS disks, and if the game's boot block has already been written over by a virus it's dead and buried anyway.

If you are checking DOS disks and still finding checksum errors, you'll have to use a program such as FixDisk or Quarterback tools to attempt a salvage operation. These programs can sometimes recalculate the checksum and revalidate a corrupted disk. Check our ads for a supplier of QB Tools (it's a commercial release) or contact Europress Direct (using the order form at the back of this mag) for a March 1991 back issue, which has FixDisk on the CoverDisk.

Spares and repairs

I am the owner of an A500, which I bought in December 1988. Unfortunately, my TV modulator has recently popped its clogs and I have had to use a green screen monitor, which is terrible for games.

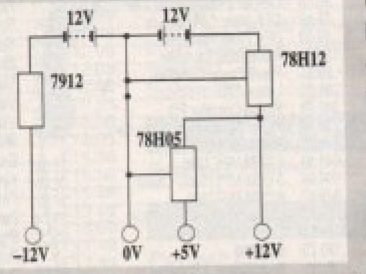
When I tried to buy a new modulator from a computer shop in Cardiff that they were out of stock, but they said they'd try to get me one for about £25. When I phoned later they said they couldn't get their hands on one. I then tried Diamond Computers in

The saga continues...

The information supplied by L J Maxwell in September's ACAS about running an Amiga from 12V batteries contains several errors.

1. The 0V connection to the two 12V regulator chips should connect to the centre of the two batteries as well as to each other (see diagram).

2. 12V regulators will not operate correctly off a 12V input. The regulators require at least 2.5V across them to guarantee correct operation. This, together with the fact that as a battery discharges its voltage drops to below 12V, would mean that the 12V outputs from the regulators may well drop to 9V or less.



To get round this problem, either the regulators need to be operated off a higher voltage (18V or 14V) by using more batteries, or switching DC to DC connectors need to be used to generate the 12V supplies.

Anyone operating computer equipment from a DC to mains invertor should make sure that the invertor does not generate large voltage spikes as this could lead to problems with machine crashes or even permanent damage to the computer and/or its power supply.

A J Matthews, Cirencester

Thanks for the tip, and the warning to potential battery boffins. This is as good a time as any for us to remind readers that we will print letters from technically expert readers in the hope that by doing so we can stimulate an informed debate on matters technical, such as has resulted in the battery debate.

However, we print replies to technical queries on a "try at your own risk" basis. As the letter above points out, there are always dangers in modifying your Amiga unless you know exactly what you're doing.

Bristol and they said I could have one for £66. What is the proper price and where can I get one?

Robert Read, Cardiff

If Diamond quoted £66, then they are trying to overcharge you by £30. Sure they didn't say £36? If you phone CPC Ltd, Commodore's spares people, on 0772 555034, you can purchase a modulator by credit card for £36.01 including VAT and postage. When I phoned them today, they said that they too were out of stock, but by the time you read this they should have had a new batch of modulators.

Wrong drive

I'm considering installing a hard drive in my Amiga, but not from the usual suppliers, hence the need for a lot of advice.

I believe that I need a SCSI hard drive (whatever that means), a control card, and partitioning software. I believe the latter is akin to tracks and sectors on a floppy.

The supplier is an electrical company called MatMos who sell a 91Mb Seagate/Imprimus hard drive at £239 (ST2106N 5.25" SCSI). They also supply "disk controller cards" (is this for hard or floppies – or are they universal?) with obscure numbers like XT MFM, XT SCSI, AT RRL and AT SCSI, at prices around £30. If the latter are usable it's cheaper than the £119 – £199 IVS Trumpcard.

What software will I require? Is it best to go for the Trumpcard and attach a Seagate?

Chris Brown, Witham

Ooh – you're a bit off the track with some of your suggested hard drive combinations. All of the cards you mention, with the exception of the IVS Trumpcard, are designed for IBM PC compatibles. RRL, MFM, and SCSI are all types of hard drive; XT and AT are types of IBM PC. An XT SCSI is therefore a SCSI interface for a PC. SCSI, seeing as you asked, just stands for Small Computer Systems Interface, and it's one of the competing standards for hard drives.

Go for the IVS Trumpcard, or cast about for one of the other cards which come in under £200. There are some such as the GVP and Nexus cards (phone Silica Shop and Power Computing respectively), which will allow up to 8Mb on board as well as a hard drive. The Seagate SCSI drive you quote is a 5.25in drive, and won't fit on most internal A2000 hard cards, but there are Seagate SCSI drives in 3.5in format, and can be had quite cheaply. On the other hand, most Seagates of this kind are stupendously slow – some have access times of 68ms or more as compared to the 16ms which is becoming the accepted standard for a decent HD.

You might be as well to go to one of the regular Amiga retailers and buy a card with hard drive already attached. Try to shell out the extra for a fast Quantum mechanism – once you've used one you'll never want to use another.

All the Amiga boards such as IVS, GVP, and Nexus come with their own formatting and partitioning software, and if you buy the lot as one unit, the drive will probably already have been set up for you.

Chips down

I bought my Amiga 500 about two years ago, for play, hobby and work. In need of good wordprocessors and DTP programs, I found 1Mb was essential, so I bought an A501 memory expansion. From then on I could load every program with no problem. Even the animations from DPaint III loaded fine.

Next on my list of peripherals was a hard disk, so I purchased an A590. Nothing out of the ordinary so far. The only thing that worried me was the fact that the above-mentioned animations couldn't be loaded any more – a "Not enough memory to load all frames" message appeared on my screen. I blamed it on the buffers needed for my hard disk.

I looked for RAM chips to fit in the A590 in several computer stores, but had no luck. So, having a degree in electronics, I ordered them from an electronics store, and installed them myself. After reconnecting the wires and cables, booting stopped after the message: "Workbench disk A500/A2000 release 1.3.2. Version 34.28", and my Amiga went into meditation giving me the number: "#81000005.00C1EDA0", which means that my memory map is scrambled.

The memory counter on my WB-screen does state 1354712 free memory, and most programs do work. The major problem is again in DPaint III animations. It loads about five frames, then gives me the absurd information that I'm out of memory. It deletes the previous four frames and distorts the current frame. After quitting, the guru gives me the error #00000003 (address error?). The instructions that came with the disk are in French, and that's about all I know. My computer is equipped with a fatter agnus (only a half meg of chip RAM however). How can I sort out this problem?

Bert Visser, Rotterdam, the Netherlands

It sounds as if either you've fitted the chips in the wrong sockets or you've got one or two damaged chips. The A590 has to be filled up in a certain order, and if you can't understand the French manual you may have inserted your chips in the wrong sockets.

It's less likely that you have damaged chips, because if the memory failed to auto-configure you'd be unable to boot up at all. It is possible that one of the chips is dodgy, but it's more likely that either the chips are in the wrong places or the A590's memory board has been damaged.

Try CPC (phone as above) for an English A590 manual, or contact Commodore in the Netherlands and ask for a Dutch version.

A bridgeboard too far

My B2000 recently suffered a read/write error on the PC hard drive I was using via my A2088 bridgeboard. The error corrupted the file PCWindow and I lost access to the A2088 ("file is not an object module" came the reply from the Amiga).

A salvage attempt seemed successful at first until I tried to use the CGA-compatible graphics – the colours have separated but colour text is fine. I tried Commodore's customer care, who referred me to CPC plc, but they don't appear to have stocks of the software at the moment.

Where am I most likely to find the A2088 Install disk? Our local dealers seems a bit vague on the matter.

G Glynn, Reading

Try CPC again and ask to put in a special order. They will have to get the disk from Commodore, so it will take a couple of weeks, but unless you can find a user with an A2088 who can help you out, this is your only guaranteed source of the software.

CoverDisk help

In answer to Graham Carter (September issue p144), the reason Andrew's Animation Studio won't save is because there's no room on the CoverDisk. Copy the program to another disk and you should have no problem – at least I didn't!

A note to the disk compiler – this sort of problem has been cropping up more and more lately because you cram the disks so full (for which many thanks), but do you think you could mention when it may be necessary to move a file to a new disk in the general instructions? I find it's almost always necessary for any file involving input from me, whether it be graphics, text, or maths.

Angela Cockburn, Lilyfield, NSW, Australia

Check out this month's CoverDisk and you'll find we've addressed the problem of copying files from one disk to another. The ShortCut menu system now contains a separate docs menu with two help files.

One, the general help file, contains information on backup procedure and how to copy files across. The second contains information on the extra files you might need for specific program on each disk. Keep up the feedback – if there's any help facility you'd like to see incorporated on the disk, drop us a line. It's your disk, so your input is always the most important factor in our decisions about its make-up.

COMMODORE ATARI CITIZEN STAR AMSTRAD CUMANA PHILIPS GOLDEN IMAGE NAKSHA ABACUS

GOLDEN IMAGE NAKSHA ABACUS SEGA DIGITA PANASONIC JVC MITSUBISHI EPSON CANON TOSHIBA HEWLETT PACKARD GOLDSTAR ZYDEC

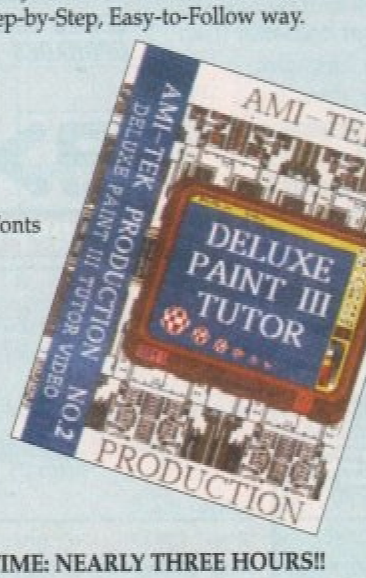
Orders Taken Unt

NEW DELUXE PAINT III TUTOR VIDEO

Learn to get the best from NEW Deluxe Paint III. This video shows you how to design and execute your own Animations, Titles and so much more in a Step-by-Step, Easy-to-Follow way.

Subjects covered include:

- ★ Screen Painting
- ★ Zoom
- ★ Colours
- ★ Working with Text and Fonts
- ★ Stencils
- ★ Perspective
- ★ Animation
- ★ Video Titling etc, etc.



RUNNING TIME: NEARLY THREE HOURS!!

Superb Value At

ONLY £18.99 inc Post & Packing

"I was a little sceptical about the chances of taking a complete beginner to such artistic heights but I must admit to being wrong" *AMIGA COMPUTING, September 1991.*

AMIGA's

OUR LOWEST AMIGA PRICES EVER!!!
ALL OUR AMIGA PRICES INCLUDE
NEXT WORKING DAY DELIVERY

Amiga 1 Meg Cartoon Classics Pack
A500 Amiga 512K Ram Computer, Built-in 1Mb Disk Drive, Mouse, A520 TV Modulator, Power Supply, Workbench 1.3, Extras, Tutorial Disks WITH Commodore 512K Memory Expansion PLUS Lemmings, The Simpsons, Captain Planet, Deluxe Paint III and all Manuals and Leads
ONLY £354.99
DON'T FORGET YOU ALSO RECEIVE GIFT VOUCHERS WORTH £10.65 WITH THIS ITEM

By arrangement with NEWBURY DATA we are pleased to be able to offer one years on-site maintenance for any Amiga 500 purchased from us for the small sum of £30.

Zydec A500 Hard Drives
Include own Power Supply and SCSI throughport for further expansion. Colour matched to Amiga. Easy RAM Expansion using 'SIMMS'

40Mb Model Only	£299.00
100Mb Model Only	£449.00
2Mb Ram Version	add £80.00
4Mb Ram Version	add £160.00

Protar A500 Hard Drives

20Mb Model Only	£275.00
30Mb Model Only	£345.00
50Mb Model Only	£425.00
60Mb Model Only	£535.00
80Mb Model Only	£595.00

Screen Gems Software Pack
Back to the Future 2, Shadow of the Beast 2, Knight Breed, Days of Thunder and Deluxe Paint II Art Package
Plus FREE T-Shirt NOW ONLY £24.99

Cartoon Classics Software Pack
Lemmings, The Simpsons, Captain Planet and Deluxe Paint III .... ONLY £46.99

Accessories Pack
Top Quality 40 Disk Holder, 10 Best Quality Disks with Labels, Quality Mouse Mat, Mouse Holder, Tailored Monogrammed Dust Cover .... Special Price £19.99

EXTRA SPECIAL PRICE IF BOUGHT WITH ANY AMIGA £17.99

AMIGA CLASS OF THE 90's

FIRST STEPS EDUCATIONAL PACK
AMAZING SOFTWARE VALUE

Consisting of:

A500 Computer plus A520 Modulator	£329.99
A501 Ram Expansion	£99.99
Deluxe Paint II – Creates works of art and develops colourful graphic on-screen images	£49.95
Deluxe Print II – Add artistic flourish to designing colourful greeting cards, letterheads, posters etc	£49.95
Prowrite – Word Processor – Combine words and pictures with multiple fonts and colours	£99.95
Infofile Ver 2.5 – Database by Gold Disk – Store and retrieve data with pictures, sounds and text	£49.95
Music Mouse – Create and save music using the mouse	£29.95
Lets Spell at Home – A fun way to teach spelling	£19.95
Logo & Talking Turtle – Interactive language with 32 colours	£49.95
BBC Emulator – Program in BBC Basic	£39.95
PLUS A Box of 10 Branded Commodore Blank Disks	£14.95
Commodore Badged Quality Mouse Mat	£5.95

Total RRP	£840.48
Less Discount	£390.49

OUR BEST EVER PRICE INCLUDING *NEXT DAY DELIVERY* ***£449.99***

Or Software Only – Value Over £389
LESS THAN HALF PRICE £149.00

PRINTERS

We are **CITIZEN SUPER DEALERS** and authorised to offer their FULL 2 YEAR GUARANTEE ON ALL CITIZEN PRINTERS. PLUS ***FREE NEXT WORKING DAY DELIVERY.***

And we are adding free of charge our own Printer Starter Kit worth **£29.95** with every Citizen printer.

★ 200 Sheets Quality Paper
★ 200 Sheets Continuous Paper
★ 200 Tractor Feed Address Labels
★ 2 Metre Amiga Printer Cable

With this kit your printer is ready to go – no more to buy – just plug in.

Don't forget your gift vouchers are worth a minimum of £8.00 with any printer purchase.

Citizen 124D Lowest Cost 24 Pin Letter Quality Printer
Audition Special Deal with Starter Kit *£194.99*
PLUS ***FREE NEXT WORKING DAY DELIVERY!!!***
and full 2 year guarantee, you save *£127*
YOU WILL ALSO GET A £5.85 GIFT VOUCHER WITH THIS ITEM

Citizen 224D Lowest Cost 24 Pin Letter Quality COLOUR Printer
Audition Special Deal with Starter Kit *£249.99*
PLUS ***FREE NEXT WORKING DAY DELIVERY!!!***
and full 2 year guarantee, you save *£117*
YOU WILL ALSO GET A £7.50 GIFT VOUCHER WITH THIS ITEM

Citizen Swift 9 Colour High Spec. 9 Pin with 4 Fonts and 240x240 dpi graphics .... R.R.P. £280.83
Colour Kit .... R.R.P. £44.65
Starter Kit .... R.R.P. £29.95
Total Value £355.43
Audition Special Deal with **FREE** Starter Kit *£209.99*
PLUS ***FREE NEXT WORKING DAY DELIVERY***
and full 2 year guarantee, you save *£145*
YOU WILL ALSO GET A £6.30 GIFT VOUCHER WITH THIS ITEM

NEW
Citizen Swift 24E Colour High Spec.
FASTER THAN THE SWIFT 24 PLUS ONE MORE FONT
24 Pin for Perfect Quality Text and 360x360 dpi graphics .... R.R.P. £428.88
Colour Kit .... R.R.P. £44.65
Starter Kit .... R.R.P. £29.95
Total Value £503.48
Audition Special Deal with **FREE** Starter Kit *£279.99*
PLUS ***FREE NEXT WORKING DAY DELIVERY!!!***
and full 2 year guarantee, you save *£223*
YOU WILL ALSO GET A £8.40 GIFT VOUCHER WITH THIS ITEM

STAR PRINTERS

Star LC20 Mono	£149.99
Star LC-200 Colour	£209.99
Star LC24/200 Mono	£259.99
Star LC24/200 Colour	£299.99

All Star Printers are supplied with FREE Amiga connecting cable, plug and ribbon etc and all ready to go to work.
YOU WILL ALSO GET A £4.50 MINIMUM GIFT VOUCHER WITH THIS ITEM

C.D.T.V. on Sale £469.99

C.D.T.V. SOFTWARE SALE

A Bus for Barney	£29.99
Barney Bear Goes to School	£24.99
My Paint	£24.99
Classic Board Games	£29.99
All Dogs Go to Heaven	£29.99
Sim City	£24.99
Fun School 3 Under 5's	£19.99
Illustrated Works of Shakespeare	£29.99
Illustrated Holy Bible	£29.99
World Vista Atlas	£45.99
Music Maker	£29.99
New Basics Electronic Cookbook	£32.99
Garden Fax Indoor Plants	£29.99
Garden Fax Garden Plants	£29.99
Time Table of History – Science and Innovation	£32.99
Time Table of History – Business, Politics & Media	£32.99

AMIGA BOOK SPECIALS

Amiga Advanced Systems Programmers Guide	£28.95
Amiga Applications	£16.45
Amiga Assembly Language Programming	£12.45
Amiga BASIC Inside & Out	£17.95
Amiga for Beginners	£12.45
Amiga C for Beginners	£15.95
Amiga C for Advanced Programmers	£28.95
Amiga Companion	£14.95
Amiga Desktop Video	£16.95
Amiga Desktop Video Guide	£15.95
Amiga Desktop Video Workbook with Disk	£28.95
Amiga Disk Drives Inside & Out	£24.45
Amiga DOS a Dabhand Guide	£13.95
Amiga DOS Inside & Out	£15.95
Amiga DOS Reference Guide 2nd Edition	£5.95
Amiga DOS Reference Guide 3rd Edition	£17.95
Amiga DOS Quick Reference	£8.95
Amiga Graphics Inside & Out	£28.95
Amiga Hardware Reference Guide	£20.95
Amiga Machine Language	£13.95
Amiga Printers Inside & Out	£28.95
Amiga Programmers Guide	£16.95
Amiga Programmers Handbook Vol 1	£23.95
Amiga Programmers Handbook Vol 2	£22.95
Amiga ROM Kernel Ref. Manual: Libs & Devs	£28.95
Amiga ROM Kernel Ref. Manual: Autodocs	£27.95
Amiga System Programmer's Guide	£28.95
Amiga 3D Graphics Programming in BASIC	£16.45
Advanced Amiga BASIC	£16.45
Becoming an Amiga Artist	£15.95
Beginners Guide to the Amiga	£14.95
The Best Amiga Tricks and Tips with Disk	£23.95
Desktop Video Production	£13.95
Elementary Amiga BASIC	£12.45
First Book of the Amiga	£14.45
Second Book of the Amiga	£14.45
Get the Most Out of Your Amiga	£9.95
Get the Most Out of Your Amiga + 2 Disks	£13.95
Inside the Amiga with C	£19.95
Inside Amiga Graphics	£14.45
Kids and the Amiga – Aged 8-80	£13.95
Making Music on the Amiga with Disk	£28.95
Mapping the Amiga	£18.95
Mastering Amiga DOS 2 – Volume 1 with Disk	£20.95
Mastering Amiga DOS 2 – Volume 2	£17.45
Using Deluxe Paint – Second Edition	£18.95
Programming the 68000	£22.95
68000 Assembly Language Programming	£21.95

CONSOLES

Sega Megadrive	£119.95
Sega Gamegear	£94.95
Atari Lynx II	£74.95

PRINTER RIBBON RE-INK

Simply open your plastic ribbon case, spray over the ribbon, replace the lid and leave for 24 hours.
BETTER THAN A NEW RIBBON
Guaranteed – Restores dozens of ribbons to new for just £11.99

DUST COVERS

Top Quality Amiga Colour Dust Covers. Tailored, Monogrammed and with Bound Edges. **Protect Your Investment**

Amiga Keyboard	£4.99
Citizen 120D Printer	£4.99
Citizen Swift 9/24/124D	£4.99
Commodore Monitor	£4.99
Philips Monitor Mk I	£4.99
Philips Monitor Mk II	£4.99
Amiga 1500 Two Part Cover	£7.99
Star LC10 Printer	£4.99
Star LC200 Printer	£4.99
Star LC24/200 Printer	£4.99
Panasonic KXP1124 Printer	£4.99

COMMODORE ATARI CITIZEN STAR AMSTRAD CUMANA PHILIPS GOLDEN IMAGE NAKSHA ABACUS

DIGITA PANASONIC JVC MITSUBISHI EPSON CANON TOSHIBA HEWLETT PACKARD GOLDSTAR ZYDEC

il 12.00 Midnight

COMMODORE ATARI CITIZEN STAR AMSTRAD CUMANA PHILIPS GOLDEN IMAGE NAKSHA ABACUS SEGA DIGITA PANASONIC JVC

MONITORS

Philips CM8833 Mk II Monitor
High Resolution, Twin Speaker Stereo complete with all Leads and One Year on-site Warranty.....£239.99
Commodore 1084S Monitor
High Resolution, Twin Speaker Stereo inc Leads.....£239.99
Philips 15" FST Cube TV/Monitor
Monitor Input gives High Quality Medium Resolution PLUS convenience of Remote Control
FastText TV inc leads.....£269.99
As above without Fastext.....£239.99 inc leads

MEMORY EXPANSIONS

512K Ram Expansion with Clock and On/Off Switch.....£23.99
Official Commodore A501 Ram Expansion
R.R.P. £99.99 Special Price.....£34.99

DISKS...DISKS...DISKS...

FULLY GUARANTEED BULK DISKS
DOUBLE SIDED DOUBLE DENSITY 135 tpi
100% Certified – UNBRANDED
USUALLY SONY, TDK or MITSUBISHI etc
ALL DISKS ARE GUARANTEED AND SUPPLIED WITH LABELS
DO NOT CONFUSE WITH INFERIOR UNCERTIFIED

20 DSDD 135 tpi £8.49
25 DSDD 135 tpi £9.99
50 DSDD 135 tpi £18.49
100 DSDD 135 tpi £33.99
200 DSDD 135 tpi £64.99

SPECIAL OFFER – Any purchaser of 50 Disks or more can purchase SONY E180CD High Quality Video Tapes at £2.49 each
No Restriction on Quantity

20 Sony Branded Double Sided, Double Density Disks in flipover top rigid plastic case, ideal Christmas present.....£12.99

Disk Boxes

10 Flip Top Disk Holder.....99p

40 Disk Holder, Lockable, Top Quality, Anti-static, with Dividers & Rubber Feet.....£3.99

80 Disk Holder, Lockable, Top Quality, Anti-static, with Dividers & Rubber Feet.....£5.99

Disks & Disk Box Offers

Pack of 20 in our Top Quality, Lockable 40 Disk Holder.....£11.99

Pack of 50 in our Top Quality, Lockable 80 Disk Holder.....£22.99

Posso Box

Drawer Type Box – Can be stacked horizontally or vertically – Holds 150 Disks.....£15.99

Disk Labels

Four Assorted Colours
60 for.....£1.00
200 for.....£2.00

AMIGA 1500

For Home, Business, Education, Design & Leisure. Fitted with 1Mb Ram, Twin Disk Drives and Separate Keyboard and CPU case as A2000.

Software pack includes:
The Works – Platinum Edition, Spreadsheet, Database, Word Processor and Comms Package.
DeLuxe Paint III Art Package, Home Accounts and 3 Top Games: Puzznic, Toki and Elf. Plus book entitled "Get the Most Out of Your Amiga"

Including Software as above.....£629.99
With Commodore 1084S Stereo Monitor.....£859.99
With Philips CM8833 Stereo Monitor.....£859.99

LOWEST PRICES AND GIFT VOUCHERS WORTH AT LEAST £18.90 WITH EVERY 1500

All 1500's can be supplied factory fitted and tested with the following extras: Bridgeboards, Hard Drives, Genlocks, Ram Expansions etc.

E.g. 8Mb Board Fitted with 2Mb Ram.....£175.99
each additional 2Mb Ram.....£79.99

52Mb Quantum Hard Drive with Microbotics Hard Frame & Controller.....£329.99

Ring for Details and Latest Quote.

FREE NEXT WORKING DAY DELIVERY on all 1500's.

JOYSTICKS

Quickshot Python Turbo III.....£9.49
Quickshot 3 MicroSwitched - QS137F.....£9.99
Quickshot Digital Apache 1 - QS131.....£7.49
Quickshot Flightgrip 1 - QS129F.....£9.49
Quickshot Game Con. QS128F.....£14.99
Power Play Black.....£9.99
Competition Pro 5000.....£11.99
Konix Speedking Auto.....£12.49
Zipstick Superpro Auto.....£12.99
Voltmace Delta 3A Analogue, Ideal for Flight Simulators.....£14.95
Trojan Phazer Light Gun.....£34.99
Konix Mega Pack - Speedking Joystick plus 4 top Codemasters Games.....£19.99

ACCESSORIES

Premier Control Centre
Sits over Amiga as Monitor Stand & Second Disk Drive Holder Colour Matched to Amiga and supplied with extension Plugs and Sockets to bring Ports forward to front side.....£45.99

Quality Soft Packaged Mouse Mat.....£2.99
Mouse Bracket (to hold mouse).....£1.99
3.5" Disk Drive Cleaning Kits.....£1.99
Twin Joystick/Mouse Extension Lead.....£5.99
Joystick/Mouse "Y" Lead.....£6.99
Joystick/Mouse Auto Sensing Switch Box.....£14.99
3 Metre Joystick Extension Leads.....£5.99

Aerial Switching Boxes, fit in TV lead to eliminate constant disconnection and wear on TV.....£3.99

Surge Protector Plugs.....£11.99
Printer Cables.....£7.99

Naksha Mouse with FREE Mouse Mat, FREE Mouse Holder and Operation Stealth Game & 2 Years Guarantee.....£22.99

SQUIK Replacement Mouse same spec and design as Naksha but without extras.....£13.95

Kickstart 1.3 Rom Upgrade.....£29.95
Midi Interface.....£19.95

Zy-Fi Amplified Stereo Speakers
Your Amiga produces excellent quality Stereo Hi-Fi Sound. Don't Waste It – Hear its full Potential. Built in Amplifier and Adjustable Volume.....£39.95

Golden Image Handy Scanner & Touch Up
New Lower Price.....£145.00

Tracey Mouse Drawing Aid
Attaches simply to side of mouse and features precision moulded crosshairs to enable you to trace any picture into your graphics package. With full colour instruction manual.....£7.95

Screen, Case and Keyboard Cleaning Kits
Consisting of:
10 Anti-Static Wet/Dry Screen Wipes
20 Microwipes Non Woven Cleaning Cloths
1 Anti-Static Foam Cleaner Aerosol
25 Safebuds Cotton Bud Sticks
Brings Your Computer Up Like New!!!!!
Full Instructions.....£14.99

TRUEDOX Trackball - 3 Button 200dpi.....£26.99

KCS POWER BOARD
Easy fit PC Emulator Board fits in trapdoor on underside.....£199.99
ATONCE+ PC Emulator Board, fits inside Amiga A500.....£179.99
ROCGEN Genlock.....£109.99

EDUCATIONAL & CHILDRENS SOFTWARE

Amiga LOGO.....£24.99
Answer Back Junior.....£13.99
Answer Back Senior.....£13.99
Better Spelling 8-14 Years.....£16.99
Better Maths 12-16 Years.....£16.99
BBC Emulator.....£19.99
Fun School 2 – Under 6.....£12.99
Fun School 2 – 6-8 Years.....£12.99
Fun School 2 – 8 and Over.....£12.99
Fun School 3 – Under 5.....£15.99
Fun School 3 – 5-7 Years.....£15.99
Fun School 3 – 7 and Over.....£15.99
Fun School 4 – Under 5.....£16.99
Fun School 4 – 5-7 Years.....£16.99
Fun School 4 – 7 and Over.....£16.99
Primary Maths.....£18.99
Micro English (GCSE).....£18.99
Micro Maths (GCSE).....£18.99
Micro French (GCSE).....£18.99
Mega Maths (GCSE).....£18.99
Reading & Writing 3-8 Years LCL.....£17.99
AB Zoo.....£3.99
Kosmos – The French Mistress.....£13.99
Kosmos – The German Master.....£13.99
Kosmos – The Spanish Tutor.....£13.99
Kosmos – The Italian Tutor.....£13.99
Fact File 500 – General Science.....£8.99
Fact File 500 – 20th Cent. History.....£8.99
Fact File – Arithmetic.....£8.99
Fact File – Association Football.....£8.99
Fact File – Spelling.....£8.99
Fact File – Sport.....£8.99
Lets Spell at Home.....£14.99

EXCLUSIVE
THE AMIGA TUTOR VIDEO

For new and not so new Amiga users – shows in clear graphic detail all you need to know to become proficient in using the Amiga.

Subjects covered include:

★ Setting Up and Connections
★ The Workbench Fully Explained
★ How to Customise the Workbench
★ Copying, Renaming and Formatting Disks
★ The Notepad, Fonts, Saving and Printing
★ Clock, Sizing and Moving Icons
★ Pull Down Menus and Scrolling Windows
★ CLI Directory Structure
★ Editing the Start-Up Sequence
★ Printer Set-Up and Preferences etc, etc.

Don't struggle with the manuals – watch as we show you HOW – all for the cost of a game.

1000's Sold... Available only from AUDITION

ONLY £19.99 inc Post & Packing

"Excellent... A great help... Sensibly it teaches... you about the most practical areas – the ones you will need. Range of topics covered is wide and, above all, practical... Put together by people who know a fair amount about the Amiga" *AMIGA FORMAT, January 1991.*

"Excellent... Simple answer to many tricky problems... I found the video excellent. May even teach an old dog a few new tricks... Certainly for anyone taking their first Amiga steps it's well worth the asking price. If only such a thing was available in my formative years" *AMIGA COMPUTING, February 1991.*

Cumana CAX354 Disk Drives £54.99

Shop Prices May Be Different. Produce this Advert if Shopping Personally or Refer to it if Telephoning.

SERIOUS SOFTWARE

Kind Words v2.0.....£29.99
Scribble Platinum.....£34.99
Pen Pal.....£69.99
Protext v4.3.....£49.99
NEW Wordworth from Digita.....£84.99
Advantage.....£69.99
Mavis Beacon Teaches Typing.....£18.49
Gold Disk Office.....£99.99
Home Accounts.....£19.99
Home Accounts 2.....£42.99
Home Titler by Genisoft.....£37.99
Digita System 3.....£31.99
3-D Construction Kit.....£39.99
Disney Animation Studio.....£72.99
Digi-View Gold.....£112.99
The Works – Word Processor, Spreadsheet, Database etc.....£75.99
GB Route.....£37.99
Deluxe Paint III.....£34.95
Deluxe Video III/Photolab.....£69.99
Perfect Sound.....£45.99
Techno Sound Turbo.....£29.99
The Complete Colour Solution.....£164.99
Pagesetter II.....£46.95

SOFTWARE SPECIALS

Photon Paint.....£9.99
Spritz.....£3.99
* Lemmings.....£9.99
* Bart Simpson.....£9.99
* Captain Planet.....£9.99
* BUY ALL THREE FOR £24.00
Deluxe Paint III.....£24.99
Lets Spell at Home.....£14.99
Logo & Talking Turtle.....£24.99

SEASONAL SUPER SAVER SCHEME

With EVERY purchase from this advertisement you will be sent a gift voucher worth 3% of the value of that order.

This voucher can be used against your next purchase.

No Strings - No Catch - Buy anything from our advertisements or lists at any time and get a discount from subsequent purchases.

Example: Buy your Cartoon Classics pack from us for £354.99 and you will also be sent a Gift Voucher for £10.65.
Exchange the Voucher for goods at any time.

FULL RANGE OF GAMES AND LEISURE SOFTWARE STOCKED – RING FOR DETAILS

AUDITION COMPUTER SERVICES

Dept AMC, 35 Broad St, Stamford, Lincs, PE9 1PJ.

Send cheque or phone credit card details for same day despatch or come and browse in our shop.
Minimum order £15.00. All prices include VAT and Delivery
Tel: 0780 55888 Shop Hours 0780 720531 Out of Hours
Switch Cards Welcome

AGREEABLY, THE NICEST PEOPLE TO DEAL WITH

DIGITA PANASONIC JVC MITSUBISHI EPSON CANON TOSHIBA HEWLETT PACKARD GOLDSTAR ZYDEC

He's got a point...

Stewart C Russell saves phone bills with FidoNet

Novice FidoNetters may be wondering how some users manage to have terribly neat messages, with quotes from previous messages and a snappy end line to the posted message. This can all be done with an offline mail reader, but for handling high volumes of mail, there's nothing to beat a mail point.

A brief explanation of FidoNet addressing is in order before we go further. The original Fido system split the World into several zones (zone one being America, two being Europe, and so on), each having many nets of bulletin board nodes. This works fairly well, but it does mean that a lot of users have the same address.

A newer system allows frequent and trusted BBS users to have a personal mail point by adding a fourth field – or dimension – to the Fido address. Thus newer 4D addresses are of the form <Zone>:<Net>/<Node>.<Point>, as in my own point address, 2:259/2.4.

How it works

As it would take a whole month's column just to explain how to set up each part of a point arrangement, I'm only going to give a very brief introduction to becoming a mail point. The system allows the FidoNetter to do most of the things possible in a normal BBS session whilst offline. Since Britain is blessed with one of the world's most expensive telephone systems, running a point can really save on your connect time.

The point system works in a broadly similar manner to the way that mail is passed between bulletin boards. Instead of using a normal comms terminal, points use a special mailer program which dials the "Boss" node and uses a special protocol to collect waiting mail packets and send any outgoing mail.

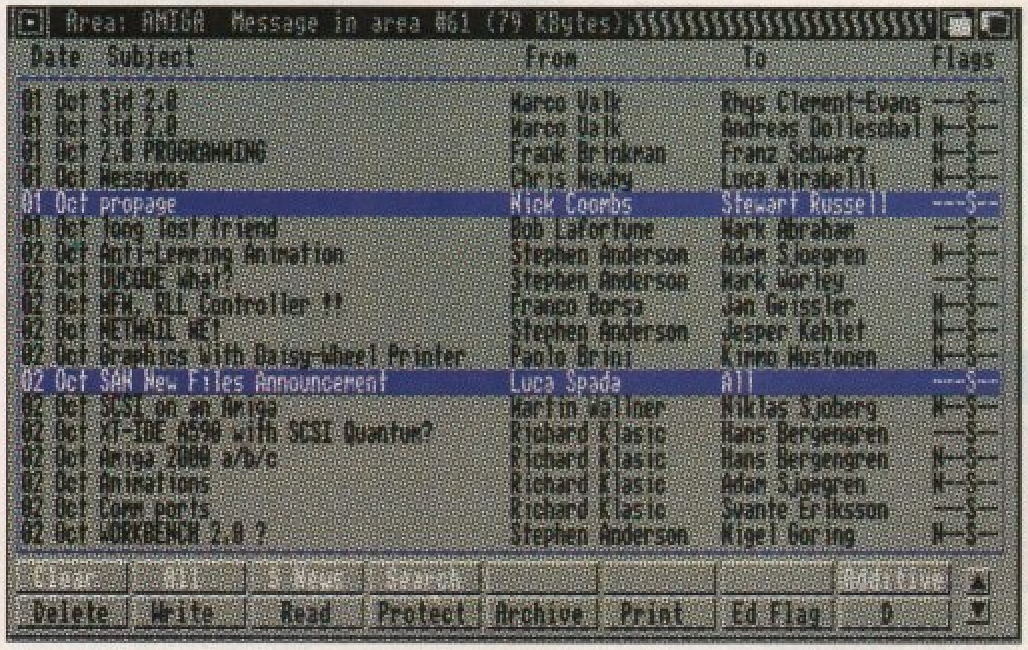
There are several Amiga mailers available, but the most widely used is TrapDoor, a shareware product from Austria. It's efficient and reliable, and is now at Version 1.80. TrapDoor can be tricky to set up, but once you have it working properly it requires no maintenance. I use it daily, and am hugely impressed by the solidity of this product.



TrapDoor in action, showing the log and status windows

The best a mailer can do is leave an archive of mail packets on your disk. You'll need a program to split the packets into messages, sort these messages into the right Fido Echo (or area) and then allow you to browse through these areas, preferably in a friendly GUI manner.

Once you've replied to or created all the messages you wish to send, the point software creates an outgoing mail packet archive. The mailer will automatically send this archive the next time the Boss node is called. Since there is more interaction between the user and the point software than there is with the mailer software, it's more down to personal preference. I happen to like Point Manager 2.05 because it handles my mail needs adequately. It does have a few limitations – such as its lack of a built in file-request module – but it's quick and simple once you get over the rather confusing setup process.



Messages, with both sender and receiver, are displayed in a clear and functional way

Flexible

A point can also send and receive files along with mail. The setup can even be used to request files from other bulletin boards, but this is rather frowned upon. Long distance callers frequently download without uploading anything useful – not clever.

Not everybody can have a mail point. The most basic limitation is whether your sysop's software can handle points – most can these days. Some support points, but don't use 4D addresses, so a fake net address has to be agreed between the boss and the points.

It is entirely up to your sysop to grant you the privilege of having a mail point. Generally, the more responsible you are when using a board, the better your requests for pointhood will be considered.

Stewart C Russell can be contacted on CIX as "scruss" or via FidoNet as Stewart Russell at 2:259/2 (Scottish Opus).

Zen, the ancient art

Paul Austin looks at just what the latest name in Amiga video has to offer

If you're anything like me, no matter how much time and money is spent on a project there's always that one little thing that could have been better, if only you had a special little utility to add those touches that all your commercial packages can't manage.

Do you fit this particular bill? If so Zen Computer Services could be just what you're looking for.

This Manchester-based outfit have been working extensively with various film and TV companies plus private production units, producing in the main one-off Amiga driven video graphic systems which vary from simple tele-prompting to commercial caption generators and live statistical graphics in the style of American football coverage.

You may ask has all this has possibly got to do with we the humble punters. As you might expect, not a great deal, as custom-made software is far beyond the reach of most of us.

However all is not lost, as it's a sad businessman who doesn't look to make a few extra bucks in the second-hand market. As a result Zen are soon to release all their suitable software via Alternative Image.

Now you and I can benefit from the needs of the commercial world by picking up designer video graphic software at a fraction of the price. Isn't capitalism marvellous?

Prompting problems

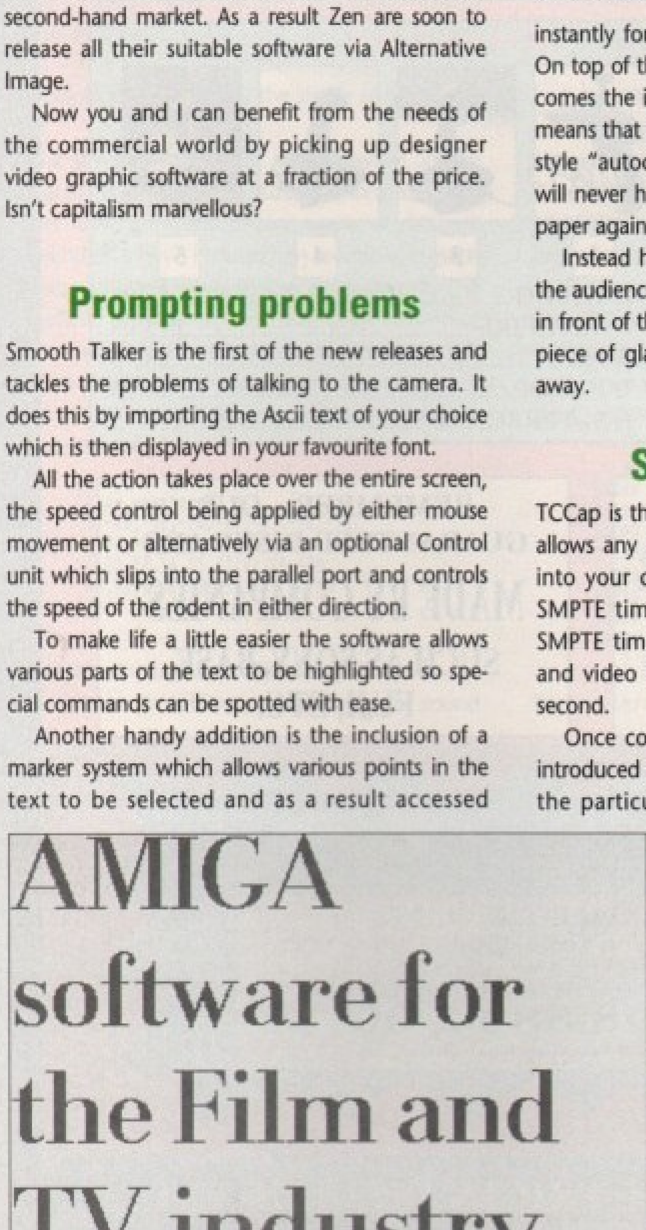
Smooth Talker is the first of the new releases and tackles the problems of talking to the camera. It does this by importing the Ascii text of your choice which is then displayed in your favourite font.

All the action takes place over the entire screen, the speed control being applied by either mouse movement or alternatively via an optional Control unit which slips into the parallel port and controls the speed of the rodent in either direction.

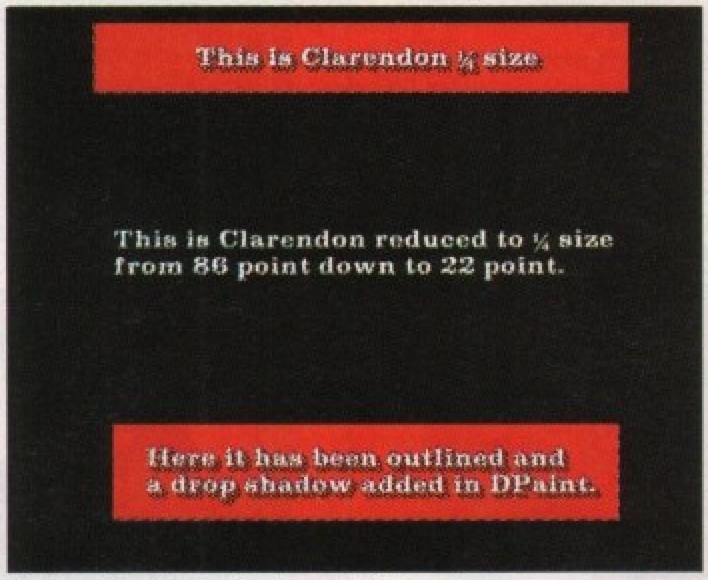
To make life a little easier the software allows various parts of the text to be highlighted so special commands can be spotted with ease.

Another handy addition is the inclusion of a marker system which allows various points in the text to be selected and as a result accessed instantly for those up to the minute news items. On top of the simple control and smooth scrolling comes the impressive talent of text reversal which means that the system can be used to produce TV-style "autocue" displays. Now your news hound will never have to stumble through endless bits of paper again.

Instead his or her eyes can stay firmly fixed on the audience as the words scroll smoothly by, right in front of the camera. All you need is a mirror and piece of glass at just the right angle and you're away.



As much prompting as anybody could possibly need, thanks to the talents of SmoothTalker



Anti-A in action – classy captions in a matter of moments

SMPTE subtitles

TCCap is the next program in the Zen pipeline. It allows any amount of subtitled text to be locked into your creation via the industry standard of SMPTE timecode. It does this by employing a SMPTE timecode reader which locks the Amiga and video signal to an accuracy of 1/25th of a second.

Once coded, various parts of the text can be introduced at any point by either manual entry of the particular timecode position or by being grabbed via the external reader. In both cases the result is the same – a frame accurate intro or outro at the position of your choice.

The size of the production is unlimited so even full feature films can be titled in one pass – all you need to do is specify where you want the words to appear and what you want them to say – simplicity itself.

The usual array of wordprocessor commands are on hand, so your anglicised version of love and life in Lapland should appear in perfect English.

And if the fancy takes you the text itself can appear in either one or two lines, with either a solid or semi-transparent background, all in the colours of your choice, of course.

Clean lines

Lastly we have what is nothing short of a dream come true for video fans. Yes folks, it's a program which can actually remove the dreaded jaggies from any standard Amiga font, leaving you with a smooth and stylish replacement which wouldn't look out of place on any TV screen.

As with most things there is a price to pay for the better things in life. In the case of Anti-A it is size that suffers. In order to achieve the increased quality the font itself is shrunk dramatically. The larger the shrinkage the better the quality, it's as simple as that. As you can imagine, merely shrinking a font isn't enough to make it as smooth as silk, so there has to be another element in the equation.

This extra element is anti-aliasing, or to be more precise four levels of anti-aliasing which in English means that four shades of grey are used to produce each character of the font. These extra shades are applied to the edges of the character where they produce a gradual fade rather than the harsh lines of the original font.

As you probably know, standard fonts only consist of one colour so processed fonts can't really be described as standard fonts any longer. Once the conversion process is complete they become "colorfonts" – a format which many Dpaint fans know and love.

And finally...

On the good side, there is an obvious and dramatic improvement in quality, but the reduction necessary for quality results can be a problem. For example if you wanted a finished font to be 50 point the original would need to start out at 150. This two-thirds reduction is almost essential for quality results and if you can go even higher it's a bonus.

Next month we'll look back in anger at the last year. So don't miss the chance to catch up on what you've missed. Until then, bye for now...

For more details contact
Zen Computer Systems 2 Silver Birch Grove, Swinton, Manchester M27 1FS

Distribution
Alternative Image, 6 Lothair Road LE2 7QB
Tel: 0533 440041

ATLAS COMPUTER SUPPLIES LTD

TEL: 0228 590699

ATLAS WORLD
NELSON STREET
CARLISLE
CUMBRIA
CA2 5ND

VISA · Access

3.5" DISKS WITH BOXES

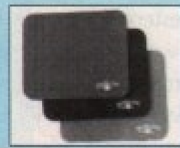
30 3.5" DSDD + BOX	£15.95
40 3.5" DSDD + BOX	£20.95
50 3.5" DSDD + BOX	£22.95
80 3.5" DSDD + BOX	£34.95
100 3.5" DSDD + BOX	£38.95

ALL DISKS 100% ERROR FREE & GUARANTEED FOR LIFE

ACCESSORIES

MOUSE MAT	£2.99
MOUSE HOUSE	£1.99
3.5" CLEANING KIT	£2.50
14" MONITOR SWIVEL	£14.50
PLASTIC PRINTER STAND	£6.99
100 x DISK LABELS	£1.50
1000 x DISK LABELS	£9.50





ALL VERY GOOD QUALITY!

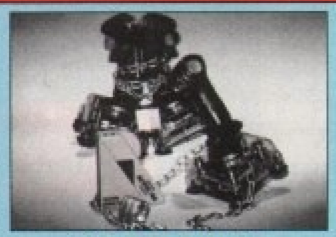
3.5" LOCKABLE DISK BOXES

50 CAPACITY	£3.65
100 CAPACITY	£4.65
12 CAPACITY LIBRARY CASE	£0.99

GREAT VALUE →



FREEDOM CONNECTOR



MAKE YOUR CONVENTIONAL JOYSTICK INTO AN INFRARED REMOTE ONE. NO WIRES 13 FEET RANGE, AUTO FIRE ETC, ETC!

ONLY £19.95

3.5" DSDD DISKS

ALL DISKS OF THE HIGHEST QUALITY MANUFACTURED BY FAMOUS NAMES, EG. SONY, BASF, FUJI (BULK) ETC.

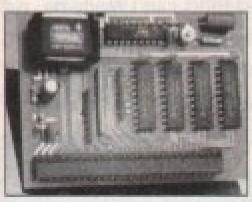
25 DSDD 135 TPI	39p EACH
50 DSDD 135 TPI	37p EACH
100 DSDD 135 TPI	35p EACH
200 DSDD 135 TPI	34p EACH
400 DSDD 135 TPI	33p EACH
1000 DSDD 135 TPI	30p EACH

JOYSTICKS



1 2 3 4 5

1 QUICKJOY II TURBO	£9.95
2 STINGRAY + AUTOFIRE	£15.95
3 QUICKJOY II PILOT	£8.95
4 QUICKJOY II JUNIOR	£5.95
5 QUICKJOY II SUPERBOARD	£17.95



½ MEG
UPGRADE
ONLY
£33.95
(INC CLOCK)



DUST COVERS...
VERY THICK TYPE
JUST
£2.50

REMEMBER – OUR GUARANTEED DISKS ARE
MADE BY COMPANIES
SUCH AS SONY, BASF, FUJI, ETC.

DON'T RISK NOT BUYING YOUR DISKS FROM US!!
IF YOU VALUE YOUR DATA & MONEY, YOU'D BE DAFT NOT TO BUY FROM US.

VIRUS PROTECTOR KIT
WARNING: VIRUSES KILL DATA.
WITH VIRUS PROTECTOR KIT YOU CAN BE SURE OF KILLING NEARLY ALL TYPES OF VIRUSES.
ALL THIS FOR JUST
£5.99
(INC. LIBRARY CASE)

INFORMATION LINE
WE OPERATE AN INFORMATION LINE. IF YOU ARE NEW TO THE AMIGA, JUST DIAL THE NUMBER AND LISTEN TO OUR RECORDING
0898 88 62 00
CALLS CHARGED AT 34p cheap rate/45p peak rate

PLEASE ADD POSTAGE & PACKING: £3.50. ALL PRICES INCLUDE VAT.

MAKE CHEQUES & PO'S PAYABLE TO: ATLAS COMPUTER SUPPLIES LTD & POST TO ABOVE ADDRESS OR TELEPHONE YOUR ORDER BY QUOTING YOUR CREDIT CARD NUMBER & EXPIRY DATE. YOUR ORDER WILL BE DESPATCHED AS SOON AS POSSIBLE. WE OFFER A NEXT DAY COURIER SERVICE FOR AN EXTRA £8.99

VISA · Access

Sounding good

Margaret Stanger gets serious with registers

My next few Almanac pages will be devoted to sound production on the Amiga. The Machine Code page of the Almanac has been amalgamated with the Code Clinic to form this new page, Programming. As usual, some C and assembler source code may be shown in the text. The CoverDisk will contain full programs with both C and assembler source code, fully documented, as before.

All sound occurs in the form of oscillations, or sound waves, in the air. On the Amiga the digital equivalent of a waveform is stored in memory. This digitised data can be converted back to analogue form and sent to the amplifier.

Waveforms

The amplitude of the wave gives the volume of the sound, and the frequency of the wave determines its pitch. Next month I shall show how to create a musical scale with notes of different pitch – this page concentrates on the timbre of the sound, determined by the shape of the waveform.

The simplest waveform is a sinewave. Other waveforms like the sawtooth wave and the square wave are a mix of sine waves of different frequencies. I have included an example of each of these pitched tones in the programs on the CoverDisk. The waveforms have been converted into a series of numbers for the Amiga, each number represents a snapshot of the wave at a given point in time. For instance a sine wave is represented by:

```
char waveform[] = {
0,-20,-38,-56,-71,-83,-92,-98,
-100,-98,-92,-83,-71,-56,-38,-20,
0,20,38,56,71,83,92,98,100,
98,92,83,71,56,38,20
};
```

The digitised values are called samples.

Noises are an arbitrary combination of sound events, rather than a mixture of other waves like a periodic waveform. I have included a noise made from sample data in the program – digital samples are read into memory from a file called "sploit", which is in the Programming directory with the software.

Other sound sample files can be obtained by using a digitiser on a real sound, or from some PD disks which contain sound samples.

Waveform data

For the Amiga to access the sound wave data, this data has to be in chip memory in the same way as the Copper list data. For my program to run on an Amiga with extended memory, I have to make sure the data is in the right place. This is done by allocating chip memory for all the sound data, and copying the data into this memory.

Registering sound

Last month's Machine Code page introduced the custom chips, and how to change the contents of some of the registers to use my own Copper list. Assembler programmers use the include file HARDWARE/CUSTOM.I to find the offset of the register addresses from the base register address.

C progammers have a corresponding include file, HARDWARE/CUSTOM.H. The custom structure includes four AudChannel structures, one for each sound channel. This is the structure from the C include file.

```
    struct  AudChannel {
 UWORD *ac_ptr;
/* ptr to start of waveform data */
 UWORD ac_len;
/* length of waveform in words */
 UWORD ac_per;        /* sample period */
 UWORD ac_vol;        /* volume */
 UWORD ac_dat;        /* sample pair */
 UWORD ac_pad[2];     /* unused */
    } aud[4];
```

Parameters can be put into this structure to determine the sound when the corresponding DMA sound channel is enabled. I have set the sample period to an arbitrary value, and set the sound volume to its maximum of 64.

The waveform data pointer is set to point to the start of each set of samples, either to the periodic waveforms (sine, square and saw tooth waves) and/or to the digitised sample data from the file "sploit". (This file contains data to simulate the sound of a small frog falling off a lily leaf, as in Fun School 2.)

The length (ac_len) contains the number of words in the sound data, or half the number of bytes. The assembler code to reproduce the "sploit" sound is:

```
move.w   #$0001,dmacon(a5)
;disable channel 0 DMA
lea      aud0(a5),a3
;store address of audio channel 0
move.l   buffer,ac_ptr(a3)
;address of sound data from file
move.w   #1125,ac_len(a3)
;length (in words) of the data
move.w   #64,ac_vol(a3)
;maximum volume
move.w   #508,ac_per(a3)
;440 Hz
move.w  #$8001,dmacon(a5)
;enable audio channel 0 DMA
```

Turn off

When the end of the data is reached, one sound cycle has been performed. The Amiga will continue with more sound cycles until the channel is disabled. In this program, the sound is turned off at the end of one second.

The Amiga may well be in the middle of a sound cycle when this happens, and the sound will not turn off smoothly. It is possible to control the sound channels using the system software, and I will demonstrate this technique in a later Programming.

The program

The two programs, sound1 and csound1 are almost identical – one is compiled from c source code, soundc1.c, and the other assembled from assembler source code, sound1.a.

Each program opens the DOS library, allocates chip memory for the sound data, and reads a file (sploit) full of sound samples into the allocated buffer. The other sound data is copied into chip memory.

The sound channel 0 DMA is disabled each time adjustments are made and the parameters for AudChannel[0] altered.

The four sounds are made in turn, with a short delay after each one. The program releases the memory, closes the library, and exits gracefully.

COMING SOON: My next three Programming pages will involve varying the sound pitch, sound channel control using a MessagePort, and simple music. Both C and assembler will be supported.



There's no need to use expensive software to produce your own sounds

You deserve the best!

Now you can get the best... with PEN PAL!

A superb package, with immense power, to fulfil all your word processing requirements and... it includes a Database! It's all so easy to use, you probably won't need to refer to the extensive 250 page manual too often.

Whilst working, you can open up to four documents simultaneously (memory permitting), search and replace; cut, copy and paste; check your spelling with a 100,000+ word dictionary. You can import your favourite IFF/HAM graphics, from programs such as DPaint II or Clip Art files in various sizes and colours. You can automatically flow text around graphics in any Workbench compatible font (there are over 200 available styles), in different sizes and colours to suit your design... even as you type. All this from a word processor and... Much, Much, More!

As you can see, this is not just any ordinary word processor! Full Page View with position, edit and creation of graphic objects. Mail Merge using the built in database and forms designer. Creation of templates for complex reports, into which the database can be merged.

Operating with 32 fields per record, and 32,000 records per database with a fast sort of 1000 records in less than 5 seconds this is a *real* database.

Pen Pal requires an Amiga 500/1500/2000 or 3000 with a minimum of 1megabyte of available memory.

Pen Pal

When...you deserve the best!

£79.95



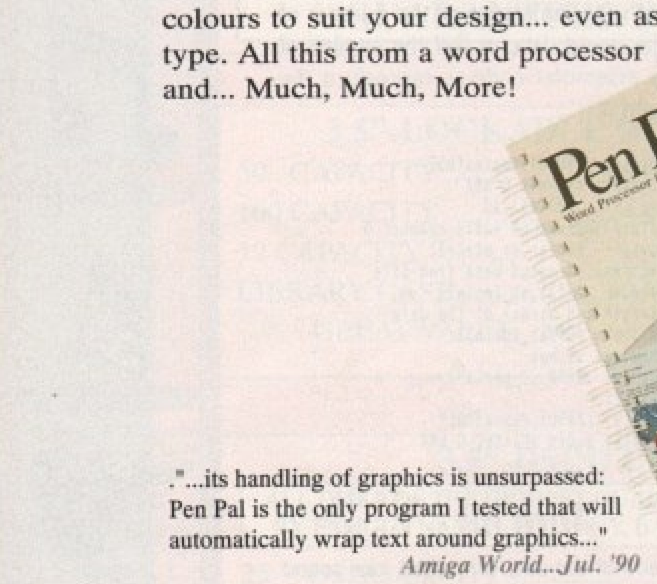
."...its handling of graphics is unsurpassed: Pen Pal is the only program I tested that will automatically wrap text around graphics..." *Amiga World...Jul. '90*

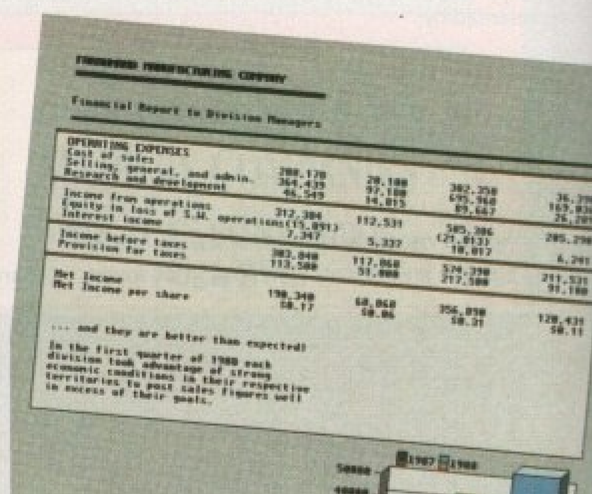
."..without beating around the bush Pen Pal is very special.." - "There is little to fault Pen Pal and it deserves to do well." *Amiga Format...Dec. '90*

"...I am extremely pleased with your product especially the Graphic Capabilities within the Word Processor. Having the Database on the same disk has made PEN PAL the best program I have..." *D.S.B., Plumstead, LONDON*

"...Please let me tell you how amazed I am at how EASY IT IS TO USE PEN PAL. The manuals supplied are very informative and very clear..." *P.S.S., Clifton, NOTTINGHAM*

"...A most excellent piece of software..." *E.P.H., Strathclyde, SCOTLAND*





Trade Distributors...

SDL

Precision Software

CENTRESOFT

HB MARKETING

Pen Pal Order Line

0773 836781

Pen Pal is also available from good computer stores everywhere!

GORDON HARWOOD HARWOOD HARWOOD Computers

Pen Pal is supplied into the UK through...
Gordon Harwood Computers New Street Alfreton Derbyshire DE5 7BP
Telephone: 0773 836781 Facsimile: 0773 831040

Very basic Midi

Paul Austin is transformed into the Barry Norman of the music business with a look at the latest Midi video plus a listen to an all-new sound enhancer

Tutorial videos are big business on the Amiga and now it's the turn of Midi, thanks to Midi Basics from ESW VideoWorks. Their particular aid to the teaching process comes in the usual video case complete with a very basic outline of the contents.

Unfortunately the contents themselves are even less detailed than their descriptions. As a result you're likely to learn far more from the blarb at the beginning of the manual than you are from this painfully weak introduction to the art of electronic music.

The video is hosted by a nameless roving reporter who occasionally prods the rather portly figure of Paul Wiffen for odd bits of bland Midi trivia. Apparently our Mr Wiffen is a fully-fledged Midi wizard, who has allegedly worked with just about everyone who's ever made an album.

It's obvious from both the packaging and the format that the makers have done their best to make the video as insipid as possible – no doubt so that as many copies as possible can be shifted to unsuspecting micro users no matter what machine they employ.

No reference at all is made to the Amiga or indeed the software it runs, which incidentally happens to be Dr.T's Tigercub. No doubt because of the video's multi-format design.

The extravaganza opens with some vague advice on a basic Midi setup, quickly followed by the construction of a particularly uninspiring piece of Mr Wiffen's art.

After the damage is done our hero sets about editing his creation with the quantise option. When everything is in its place he continues with a brief explanation of transpose. This is followed by a little more tinkering and then it's off to a larger studio to add a few whistles and bells.

Of course, before we leave our resident expert manages to copy his creation onto his original Tigercub system disk, no doubt complete with a virus or two and perhaps even the odd read/write error – not a good idea....

Once settled into the new studio Mr Wiffen sets about adding some high quality sounds to his masterpiece. This process is accompanied by a brief mention on the units used along with an occasional zoom as the appropriate fader is adjusted.

On top of all this excitement comes a series of questions and answers presumably to pad out the massive 25 minutes running time.

Perhaps the most maddening aspect is the sound quality which is quite dreadful, especially considering the subject. No attempt has been made to record direct from the desk. Instead all sound – including the voice overs – comes from the onboard camera mic.

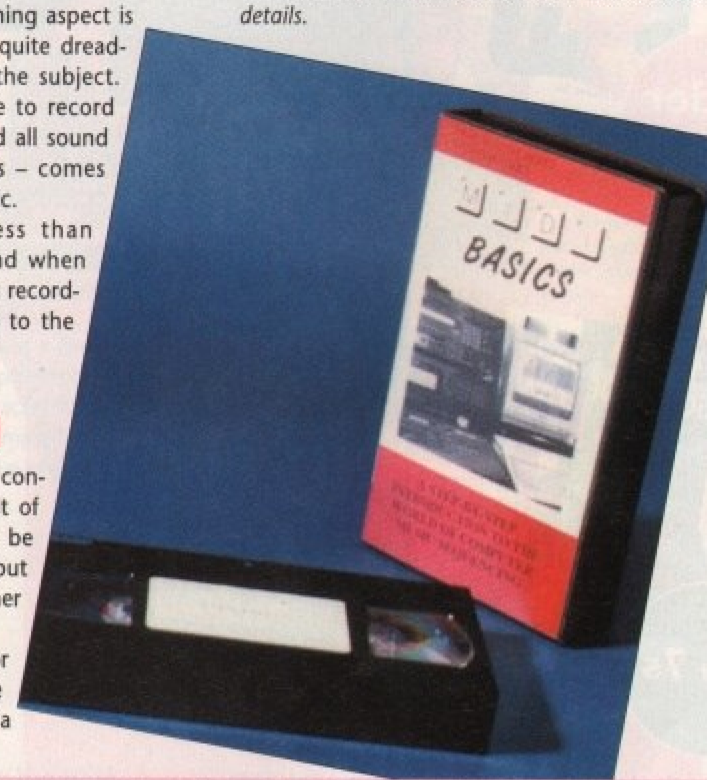
The demo music is less than impressive to start with and when this is compounded by poor recording techniques it only adds to the frustration.

The bitter end

On top of the thinly spread content there's the added insult of the £27.99 asking price. To be honest I can't see anybody but a very desperate music teacher finding any use for it.

If you still feel the need for assistance check out the local library or sign on to a part time Midi course at the local poly – you'll learn a lot more, for a lot less.

● *Tel: Darrin Williamson on 081-460 1773 for details.*



Excellent enhancement

Now before I'm pigeon-holed as the grumpiest man in music, take a look at what, for me, is almost frenzied excitement. Yes folks, I actually like something. In fact love might be closer to the mark.

What's the mysterious cause of such unrestrained excitement? Just a simple and lowly sound enhancer that's easy to use, produces excellent results and perhaps most important of all is cheap. What more could any muso want?

Like all good ideas, Omega Projects' Sound Enhancer is essentially simple – its only aim is to bring out the very best from any Amiga sound source. It does this by sitting – in line – between the audio outputs on the Amiga and either the monitor or your external amp and speakers.

In effect the unit works as a bass and treble booster which simply amplifies all those signals which are ignored by the Amiga's internal sound circuitry.

For those blessed with a graphic equaliser this probably doesn't seem very impressive but it's worth remembering that the unit has been designed specifically to suit the Amiga and as a result there's a good deal less effort required to attain that perfect sound.

It's simplicity itself to use, comprising a small but sturdily constructed metal box which is home for a single knob and a solitary bypass button.

The knob simply defines the amount of enhancement. When active the unit automatically boosts the bass signal. As a result the knob's main use is to define the amount of extra treble signal.

An added bonus is that with some convoluted connecting it's possible to pass any would-be samples through the unit before they're digitised.

As a result other Amigans can enjoy your increased fidelity without an enhancer of their own. This process is by no means as flexible as having your own enhancer, but it does give them a chance to hear just what they're missing.

If you're either an Amiga muso or a sound-mad game fan I'd say it's a must. If you're in the market for a Christmas present I suggest you get this right to the top of your list. It's worth remembering that the system can't produce miracles – in other words poor samples won't become good ones overnight. But it's certainly true that good sounds become far better. An excellent product, and highly recommended.

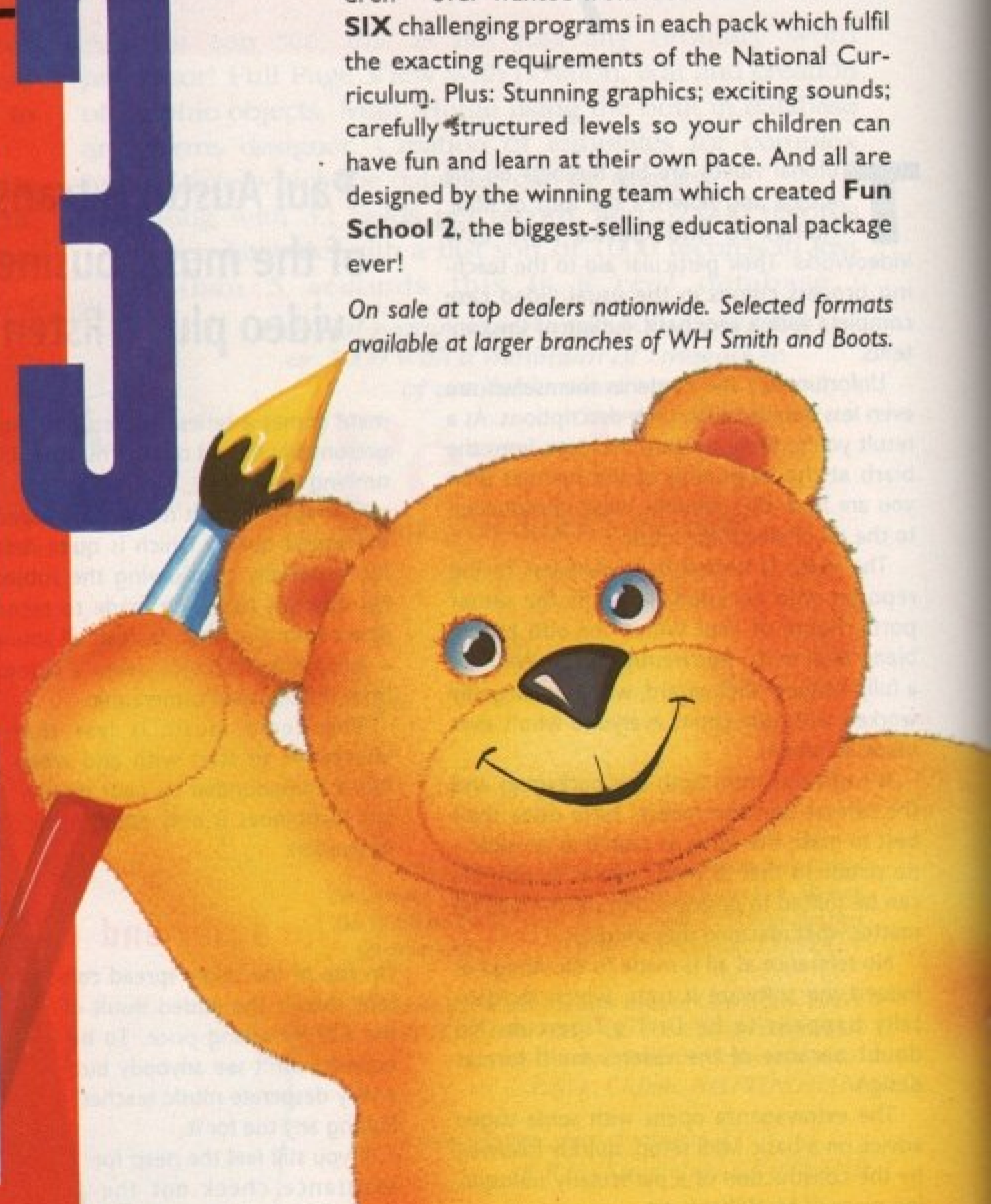
Available from Omega Projects Tel: 0925 763946

fun school 3

Learning is now even more fun!

Fun School 3 is everything you – and your children – ever wanted from educational software: **SIX** challenging programs in each pack which fulfil the exacting requirements of the National Curriculum. Plus: Stunning graphics; exciting sounds; carefully structured levels so your children can have fun and learn at their own pace. And all are designed by the winning team which created **Fun School 2**, the biggest-selling educational package ever!

On sale at top dealers nationwide. Selected formats available at larger branches of WH Smith and Boots.



Under 5s





Count up to nine to help teddy get the honey



Pair the large letters at the alphabet fair

5 to 7s





Tell the time and watch the clock come alive!



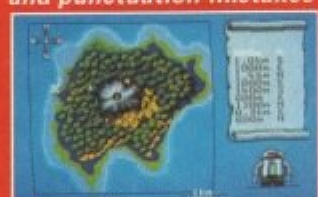
Guide the frog from log to log to solve the sums

Over 7s





Correct spelling, grammar and punctuation mistakes



Follow the directions to find the buried treasure

• Atari ST • Amiga • PC • Amstrad PCW
£24.99
• Spectrum • C64 • Amstrad CPC
£12.99 (tape) £16.99 (disc)

DATABASE EDUCATIONAL SOFTWARE

Format	Under 5s		5 to 7s		Over 7s	
	Tape	Disc	Tape	Disc	Tape	Disc
Atari ST		9490		9491		9492
Amiga		9921		9922		9923
PC 5.25"		5891		5892		5893
PC 3.5"		5894		5895		5896
Amstrad PCW		5211		5212		5213
Spectrum	9084	9085	9086	9087	9088	9089
Commodore 64	9076	9077	9078	9079	9080	9081
Amstrad CPC	6189	6190	6191	6192	6193	6194

Send to: *Database Direct, FREEPOST, Ellesmere Port, South Wirral L65 3EB.* ***Order hotline:*** 051-357 2961

Please supply Fun School 3 for the code number(s) circled
☐ Cheque payable to Database Softwa
☐ Please debit mv Access/Visa card no
Expiry date:

Signed

Add £2 per program for Europe & Eire (£5 Over

Name

Address

Postcode

Ducking and diving

Peter Hickman adds a bit of movement to our passive Pacman

Fun School 4 is nearly finished, and that's official! Written mainly in AMOS, Fun School 4 aims to improve upon the zillion-selling Fun Schools 2 and 3 by incorporating amazing selections of tunes and reward sequences to keep children intrigued by the software.

Having seen a lot of the – incredibly funny – animations contained in the programs, I can say that Europress are on to another winner. Come Christmas morning I can see the whole family sitting down with little Kevin and Tracy's new Amiga and Fun School 4 for a good laugh!

On with the programs. Last month we took a look at how to generate a maze using simple blocks. We also saw how to store this maze data in an AMOS bank. The reason for doing this is simple – in the days before hardware sprites and automatic collision detection, programmers still managed to produce games by looking at the position of players, enemies and background objects. They could then calculate whether or not they overlapped.

The first thing we must do is set up a working screen and load the Pacman sprites and maze icons in memory. These files are on the CoverDisk:

```
Reserve As Work 10,240
Screen Open 0,320,200,16,Lowres
Flash Off
Curs Off
Cls 0
Hide On
Load "MAZE_ICONS.ABK"
Load "PACMAN_SPRITES.ABK"
Get Icon Palette
```

OK, now we must define some simple variables. Those of you who have just started to learn how to program will notice the GLOBAL statement. This lets our program know that the variables X and Y are used in all parts of the program (including procedures).

If we did not execute this command, the procedures – which are really mini programs, independent of the main one – would assume that the variables X and Y were only used in themselves. It is probably easier to think of the GLOBAL as making the procedures share information:

```
Global X,Y
X=1
Y=1
MAKE_MAZE
```

OK, now is the interesting part. The formulas which are calculated into the variables UP, DOWN, LEFT and RIGHT check the position of our Pacman compared with the maze data we have stored in bank 10. If the joystick is pushed in a direction and there is a pill found there, the program will move the Pacman and erase the dot accordingly! If you remember how we built up the maze last time you will recall that the pills had a value of eight:

```
Repeat
   UP=((Y-1)*20)+X
   DOWN=((Y+1)*20)+X
   LEFT=(Y*20)+(X-1)
   RIGHT=(Y*20)+(X+1)
   Bob 1,16*X,16*Y,2
   Wait 2
   WAY=Joy(1)
   If WAY<>0
      If WAY=1 and Peek(Start(10)+UP)=8
         EAT_DOT
         Dec Y
      End If
      If WAY=2 and Peek(Start(10)+DOWN)=8
         EAT_DOT
         Inc Y
      End If
      If WAY=4 and Peek(Start(10)+LEFT)=8
         EAT_DOT
         Dec X
      End If
      If WAY=8 and Peek(Start(10)+RIGHT)=8
         EAT_DOT
         Inc X
      End If
   End If
Until False
End
```

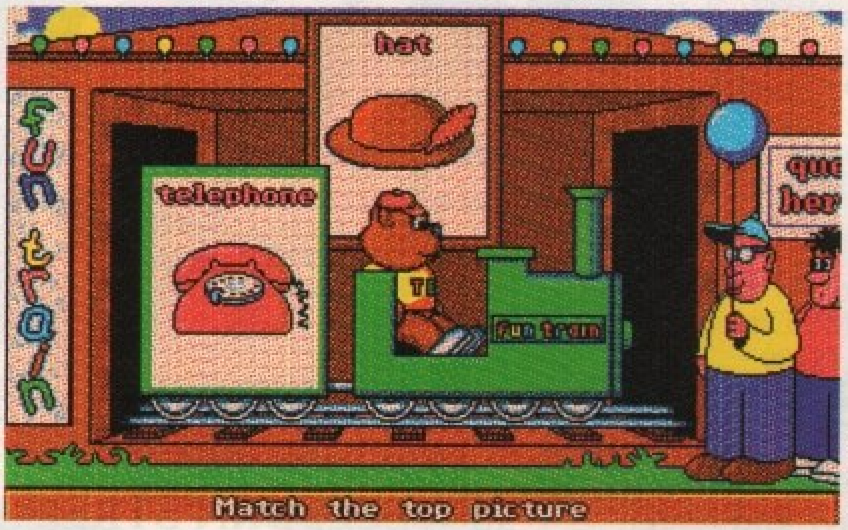
This procedure erases the pill when the Pacman moves:

```
Procedure EAT_DOT
   Cls 0,X*16+6,Y*16+6 To X*16+12,Y*16+12
End Proc
```

The following procedure is identical to the one we wrote last month to draw the maze:

```
Procedure MAKE_MAZE
   For LOP=0 To 11
      Read MAZE$
      '
      For LOP2=0 To 20
         BLOCK=Val(Mid$(MAZE$,LOP2+1,1))
         POSITION=Start(10)+(LOP*20)+LOP2
         '
         Poke POSITION,BLOCK
         '
      Next LOP2
   Next LOP
   '
   For LOP=0 To 11
      For LOP2=0 To 19
         BLOCK=Peek(Start(10)+(LOP*20)+LOP2)
         If BLOCK<>0
            Paste Icon LOP2*16,LOP*16,BLOCK
         End If
      Next LOP2
   Next LOP
   Wait Vbl
   Double Buffer
   '
   Data "122222222222222222223"
   Data "488888888888888888884"
   Data "481238123812238123 84"
   Data "484 485268522684 484"
   Data "484 488888888884 484"
   Data "485268122222223852684"
   Data "4888884       4888884"
   Data "481238522222226812384"
   Data "484 488888888884 484"
   Data "485268122222223852684"
   Data "4888884       4888884"
   Data "5222226       5222226"
End Proc
```

Well, that's all of the programming this time. Next month we introduce a ghosty to the maze.



Fun School 4 – the animations are incredibly funny

> Guess what? I am putting together a new newsletter type magazine just for AMOS owners! In the first issue – available now – you can find lots of programs, a preview of Easy AMOS (the new Europress stonker), an assembly language tutorial and tons of other stuff. Each issue is published bi-monthly and not only offers you some brilliant articles but also the opportunity to win mega-prizes! Send me an sae at the following address and I'll zip you some info.
>
> *All About AMOS, 36 Cleverley Estate, Wormholt Road, LONDON W12 OLX*

Update

Ubiquitous public domain and licenceware author Len Tucker has launched a disk based AMOS periodical. Called *Totally Amos* (another wonderfully simple title!) it aims to provide things such as sprite banks, music and samples – all ready for inclusion in your own AMOS programs. It also offers a healthy dose of programs and all sounds very interesting. I'll give it a more in-depth look soon.

According to the Europress sales figures an awful lot of you have bought AMOS 3D. I hope you are enjoying this innovative piece of software. Have you created any interesting objects with it yet? Yes? Well why not send them to *Amiga Computing*? Perhaps if we could put a few 3D objects on a CoverDisk it would be possible to do a couple of 3D programs in a few months.

Before I pop off into the land of Fun School, I must mention that Sandra Sharkey has changed the name of the AMOS PD library. It is now called Déjà Vu Software.

Sandra has a couple of Christmas licenceware titles which are bound to captivate youngsters, and you can contact her for more information on 0942 495261.

We do it in real-time ...and in COLOUR.



With our VIDEO DIGITISERS you can…
step into the real-world of real-time AND colour:

- No need for a perfect freeze frame VCR!
- No need for a colour splitter!
- No need for a colour wheel!

Perfect pictures from a moving colour source at just the touch of a button.



With **SuperPic** and **ColourPic** frame grabbers you can…

★ GRAB a frame from a moving picture in 64,000 vibrant colours.
★ SAVE and display pictures in 64,000 colours.
★ ENHANCE your DTP skills with a wide range of built in monochrome tools.
★ INTERFACE directly with the PD AIM image processing software to use its wide range of powerful image processing tools.
★ CREATE a picture which can be loaded into your favourite image data base or art package…Superbase, DeLuxe Paint, Photon Paint, Digipaint…and print to your colour or monochrome printer.
★ SEE your SCULPT images as you have never seen them before! Use **ColourPic** or **SuperPic** as the perfect SCULPT display device!
★ DIGITISE images in HAM, EHB, 32,16,8, & 4 colour, monochrome, threshold, interlace and overscan modes.
NEW! ★ ANIMATE from a real life colour source. The **AniMate** option extends th **SuperPic** or **ColourPic** framestore memory RAM to 512K and includes hardware and software for short sequence, real life colour animation from VCR or video camera. Captures and replays in single field or sequence modes. Outputs IFF files for use with DeLuxe Paint, Photon Paint and other animation systems.
NEW! ★ MODIFY existing pictures using **Cabaret,** our new exciting software package for **SuperPic** and **ColourPic. Cabaret** combines image import facilities and colour processing functions with many powerful new features to give some interesting effects!

ColourPic – The real-time colour video digitiser for the A500, A2000 and A3000. RRP £399 inc VAT.
ColourPic AniMate – RRP £549 inc VAT.
SuperPic – The real-time colour video digitiser and superb genlock for the A500 and A2000 for the discerning Amiga user. RRP £499 inc VAT.
SuperPic AniMate – RRP £649 inc VAT.
Cabaret – New software for all our Amiga digitisers £5 inc VAT available direct from JCL.
AniMate – Upgrade service for most existing models – please call.

ColourPic and **SuperPic** can be obtained from selected Amiga dealers or direct from JCL.
For your free show disk of pictures contact Carolyn on 0892 518181

JCL

JCL BUSINESS SYSTEMS LIMITED
71 St. John's Road, Tunbridge Wells, Kent TN4 9TT, England
Tel: 0892 518181 (INT) +44 892 518181. Fax: 0892 511772 (INT) +44 892 511772

VISA Access EUROCARD

Doing it with style

Ben Pointer plays tag with Professional Page

Desktop publishing is mainly about design. In the same way that you can't expect to be able to draw like Da Vinci simply because you own a pencil and paper, the acquisition of a desktop publishing program isn't going to turn you into a page designer.

But there are features within desktop publishing programs that can help you to produce professional looking documents that require a minimum of design. One such feature is the style tag.

Style tags let you keep a consistent look and feel to your publications while at the same time allowing you to make changes quickly and easily.

A simple example would be chapter headings in a book. You would want each chapter heading in the same book to be set in the same style, but in another book you might want them all in another style.

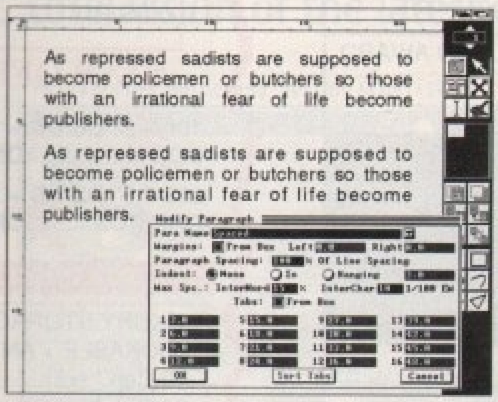
To alter all the chapter headings in the second book you would have to go through them one by one changing typeface, point size and so on. If there were a lot of headings it would take a long time. And if you decided to change them again for a third book you'd have to do it all again.

However, tag all the headings as a style called (say) "Chapters" and all you need to do to change every heading in the document is alter the settings of that particular tag.

Regular

If you were producing a newsletter or club magazine there are several parts of such a publication that could be defined as style tags – things like article headings, bylines, picture captions, subheadings, contact addresses and so on. Keeping to a regular style for these parts of your publication will give it a professional look – it will have the appearance of being designed even though all you've done is decided that all headings are this big in this typeface and all picture captions are that big in that typeface.

What I'm going to do in this article is run through the Professional Page Define New Style Tag requester so that you can understand what effect each feature will have on your text. At the top we've got Tag Name. This has no effect on your text. It is the name of your tag. It makes sense to use a name that exactly describes the use of the tag – "Article Heading" might be better than just "Heading', and "Picture Caption" might be better than just "Caption".



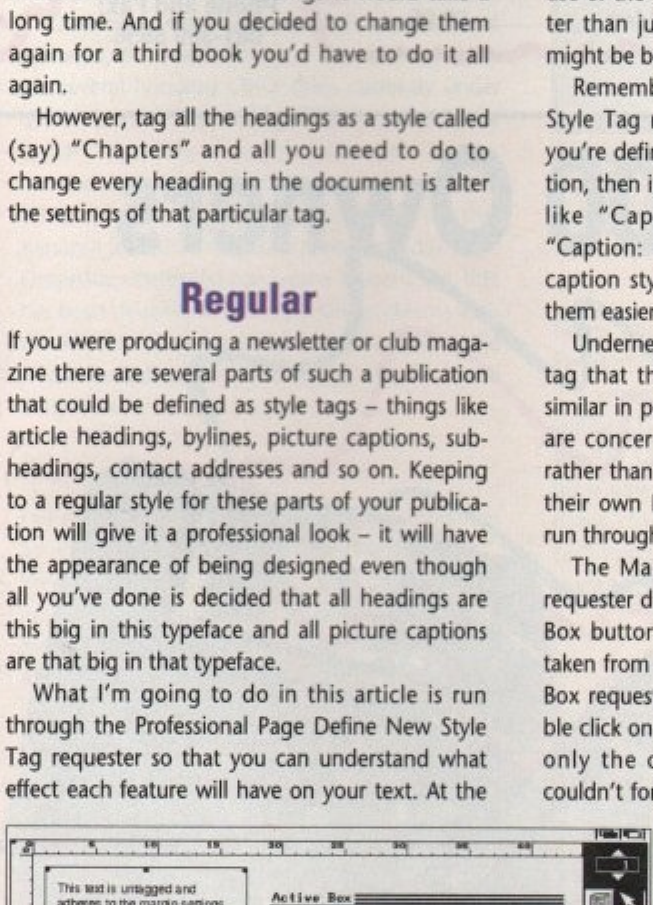
While increasing the InterChar spacing helps to get rid of those ugly rivers of white, increase it too much and the words become difficult to read

Remember that tags get listed in the Select Style Tag requester in alphabetical order, so if you're defining more than one style of (say) caption, then it might be an idea to call them names like "Caption: Photo", "Caption: Table", "Caption: Figure" and so on. That way all the caption styles stay together in the list, making them easier to find.

Underneath Tag Name is Para – the paragraph tag that this style will use. Paragraph tags are similar in principal to style tags, except that they are concerned with the formatting of the text rather than the style in which it is set. They have their own Define requester, which we'll quickly run through while we're on the subject.

The Margins part of the Define Paragraph requester deals with boxes not pages. If the From Box button is active then the box margins are taken from whatever they are set to in the Active Box requester, the one that pops up if you double click on a box – this means that you can have only the one margin in that box, and you couldn't force a certain paragraph to have larger or smaller margins than the rest of the text in that box.

To achieve this you have to deactivate the From Box button and enter the left and/or right margin measurement into the relevant string gadgets. Any text highlighted and tagged in this paragraph style will then take its margin settings from the paragraph tag rather than the Active Box settings.



Different left and right margin settings in a single box can be achieved by setting up paragraph tags

Paragraph Spacing is the vertical gap between paragraphs. The default setting of 100 per cent means that the space between the start of a new paragraph and the end of the previous one is the same as the vertical gap between each line.

If you find that your text is not fitting the space you've designated for it, increasing the paragraph spacing slightly is one way to quickly overcome the problem – newspapers often do this.

Indent is the style and distance for the paragraph indent. "None" means that each new paragraph will be set flush with the left margin of the box; "In" means that the first line of each new paragraph will be indented by the distance specified in the string gadget to the right of the three buttons; "Hanging" is the opposite of "In" – instead of the first line of the paragraph being indented it remains flush with the left margin and all the other lines of the paragraph are indented by the distance specified in the string gadget.

Tricky

The two Max Spc gadgets are probably the trickiest to get the hang of. To start with they only come into play if your text is flush justified. The problem with flush justified text is that you often end up with "rivers" of white space running down the page where the software has inserted space between the words in order to justify the line.

The InterWord and InterChar gadgets let you specify the maximum amount of white space the software is allowed to insert between words and letters when flush justifying.

The InterWord distance is specified as a percentage of additional space over normal. The "normal" space is the distance you see between words in flush justified text when InterWord and InterChar are left at their defaults. Changing the value in the InterWord gadget has no effect unless you change the value in the InterChar one.

The InterChar distance is specified in 1/100ths of an em. An "em" is nothing more mysterious than the width of the lower case "m" in whatever font you are using for that text.

Finally...

The last button in the Define Paragraph requester is the Tabs one, and this works on the same principal as the Margins section – if the From Box button is activated than the tab settings for the paragraph are taken from the Active Box requester, otherwise you specify them in the string gadgets below – this allows you to have many sets of tab settings in one text box.

So that's the Define Paragraph requester dealt with and unfortunately we've run out of space. We'll continue the tour around the rest of the Define New Style Tag requester next month.

AIRCRAFT QUALITY CONTROLS FROM *R.C. Simulations*

New Flight Pedals



Designed to use in conjunction with the brilliant Gravis Mousestick®, the pedals are supplied with custom software to interface with Flight Simulator 2® dramatically increasing the realism and allowing the use of a second joystick for throttle control. Flight pedals also perform with F16 Combat Pilot and all car racing games. **Only £34.95 + p&p** Including FS2 software patch.

GOLD AWARD — GOLD AWARD

The Gravis MouseStick®

BetterthantheBESTAnalogueStick



For sophisticated simulation enthusiasts, who demand PERFECT control, with programs such as Proflight, F19, Mig29, etc. A professional quality, programmable optical joystick C/W 16k microprocessor and L.C.D. screen offering 1200 line count resolution. Works perfectly with all simulations with sensible mouse routines and any others in its programmable joystick mode. No other joystick comes even close to the Mouse Stick for perfomance, reliability and pleasure in use. **£69.00 + p&p**

Full technical support and 1 year guarantee.
S.A.E or telephone for full details.
Telephone (0272) 550900
Fax: (0272) 411052

R.C. Simulations
Unit 1b Beehive Trading Estate
Crews Hole Road
St. George
Bristol BS5 8AY

★ **SPECIAL CHRISTMAS PRICE £99.00 per SET**

THIS IS NOT A MISPRINT

GUARANTEED DISKS AT CRAZY PRICES

3.5" DISKS

50 DS/DD	£19.95
100 DS/DD	£34.00
200 DS/DD	£64.00
250 DS/DD	£75.00
500 DS/DD	£145.00
50 DS/HD	£30.00
100 DS/HD	£55.00

5.25" DISKS

50 DS/DD	£12.50
100 DS/DD	£22.00
50 DS/HD	£20.00
100 DS/HD	£35.00

ALL DISKS COME WITH LABELS

STAR OFFERS

100 3.5" DS/DD + 100 CAP BOX ....ONLY £37.50

200 3.5" DS/DD + 2 x 100 CAP BOX........ONLY £69.95

SONY

100 3.5" DS/DD BULK ONLY £40.00

E/OE

100% PRODUCT SATISFACTION OR MONEY BACK

LUXURY STORAGE BOXES: LOCKABLE + ANTI-STATIC

10 Cap.* (x5)	£4.95
50 Cap.*	£3.95
80 Cap.*	£4.50
100 Cap*	£5.50
BANX (80 Cap)	£8.95
Printer Stands	£7.95
Re-Ink	£12.95
Dust Cover*	£3.95
Head Cleaner*	£2.95
Mouse Mats*	£2.95

ALL PRICES INCLUDE V.A.T. and P&P

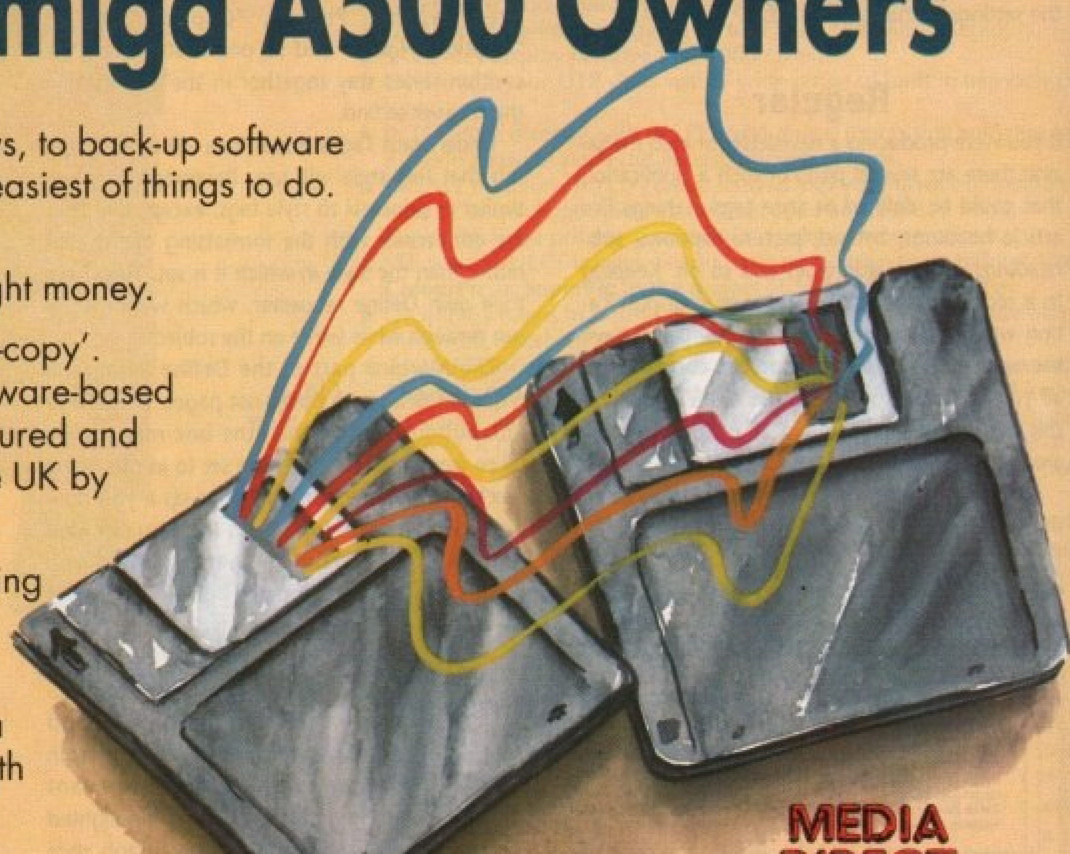
DIAL A DISC
6 Walsingham Road
St. Pauls Cray
Kent
BR5 3BW

"Personal Callers by arrangement"

*ONLY IF BOUGHT WITH DISKS

Phone and Fax:
081-309 5556

Attention Amiga A500 Owners



As every Amiga A500 owner knows, to back-up software from one disk to another is not the easiest of things to do. Unless you have the right utility.

The trouble is finding one for the right money.

Well you just have. It's called 'Blit-a-copy'. 'Blit-a-copy' is a software and hardware-based intelligent back-up system manufactured and distributed under license here in the UK by Media Direct.

And, at just £34.95 inc VAT, it's being sold at a price that no-one can reproduce!

Alternatively, purchase the Cumana CAX354 external drive together with Blit-a-copy for a combined price of £87.95

Trade enquiries welcome.

Please add £3.35 post and packing or £6.95 for a two day delivery service or £9.00 for a 24hour service.

MEDIA DIRECT

Media Direct Computer Supplies Limited,
Unit 3, Railway Enterprise Centre,
Shelton New Road,
Stoke-on-Trent ST4 7SH
Tel: 0782 208228
Fax: 0782 281506

Media Direct Computer Supplies Limited does not condone or encourage the reproduction of copyrighted software.

CDTV in a spin

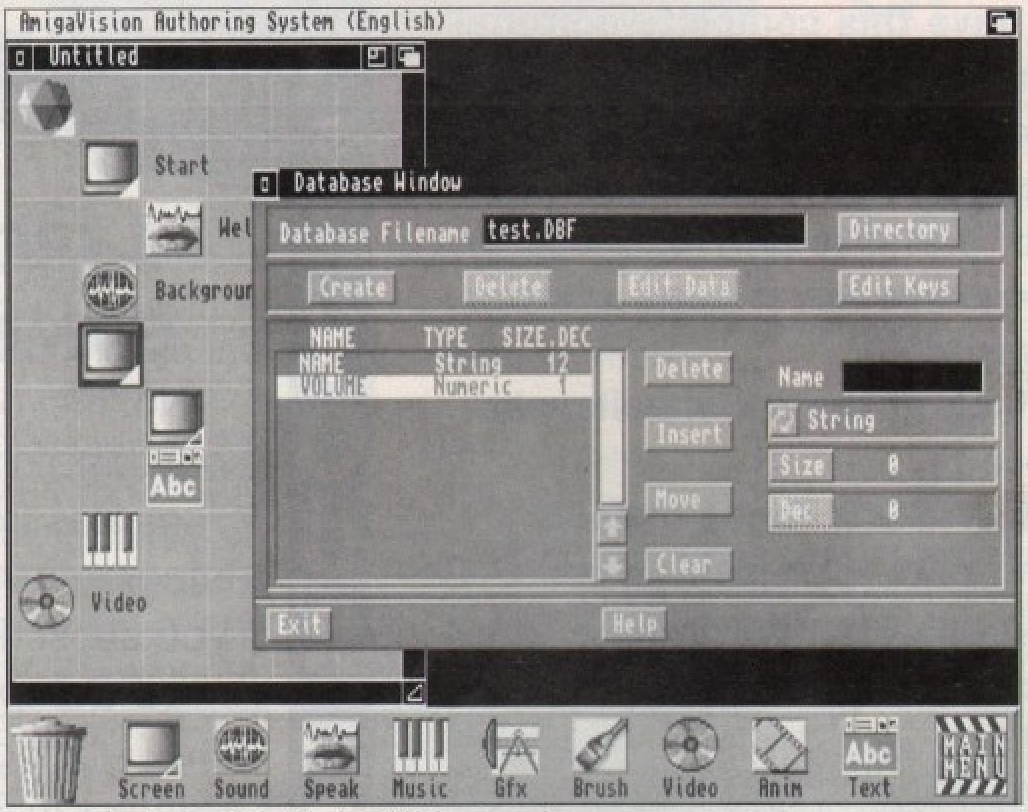
The dynamic Jolyon Ralph brings you total vision of the latest developments

Commodore had a large stand at TIME – the major multimedia show, which helped to make up for their absence from the Multimedia show earlier in the year. The show was the first chance for most of us to see NewTek's Video Toaster, still NTSC only, but impressive nonetheless.

I was given a sneak preview of some exciting new CDTV add-ons at the show. Firstly there is the Professional Video Adaptor, based on the DCTV 24-bit colour board. The output quality from this is excellent, and Commodore are talking about a price in the range of £50, and the possibility of future machines being bundled with the card.

The second card was an internal hard drive for the CDTV. The model I saw carried an 80Mb 2.5in Conner hard drive, mounted onto the back of a small circuit board, the whole assembly being smaller than a pack of cigarettes. Commodore will be launching 20Mb and 80Mb models, although they will be relatively expensive, being aimed at professional markets.

Chatting to Commodore's CDTV development manager, Jim Mackonochie, I also learned there are several hundred CDTV titles currently under development with around 80 available by January, including one by me! The rival CD-I system has about eight titles finished with another 30 in development. Mirrorsoft have told me that Xenon-II for CDTV will be available any day now. Originally scheduled for a June launch, the title has been delayed due to copyright problems with the Rhythm King music on the disc. The audio tracks include work from Bomb the Bass and Betty Boo.



Now an updated version of AmigaVision is available from Commodore

Dodgy drives

I've now seen two or three hardware companies advertising "CDTV compatible floppy drives". Well, if you want a cheaper CDTV drive just buy any standard Amiga floppy drive and a tin of black spray-paint. Spray the case black, and *voila*! A CDTV floppy drive. I'm using a standard RocTec Amiga floppy drive on my CDTV with no ill effects.

Commodore have set up CDTV Consortium Japan in co-operation with Mitsui and Dai-Nippon Printing, two major Japanese companies. The CDTV is currently manufactured by Matsushita, Japan's biggest electronics company, better known over here under its brand name Panasonic.

I would expect that within six months there will be CDTV-compatible players on the market in the Far East – although probably not in Europe for a little while longer – bearing the Panasonic name. Sanyo have also worked on CD-Amiga technology before, so it would make sense for them to produce their own player.

Wobbly discs

Unfortunately there are no CDTV title reviews this month. This is not because I haven't got any titles to review – I have several lined up for next month – but because my CDTV player broke down.

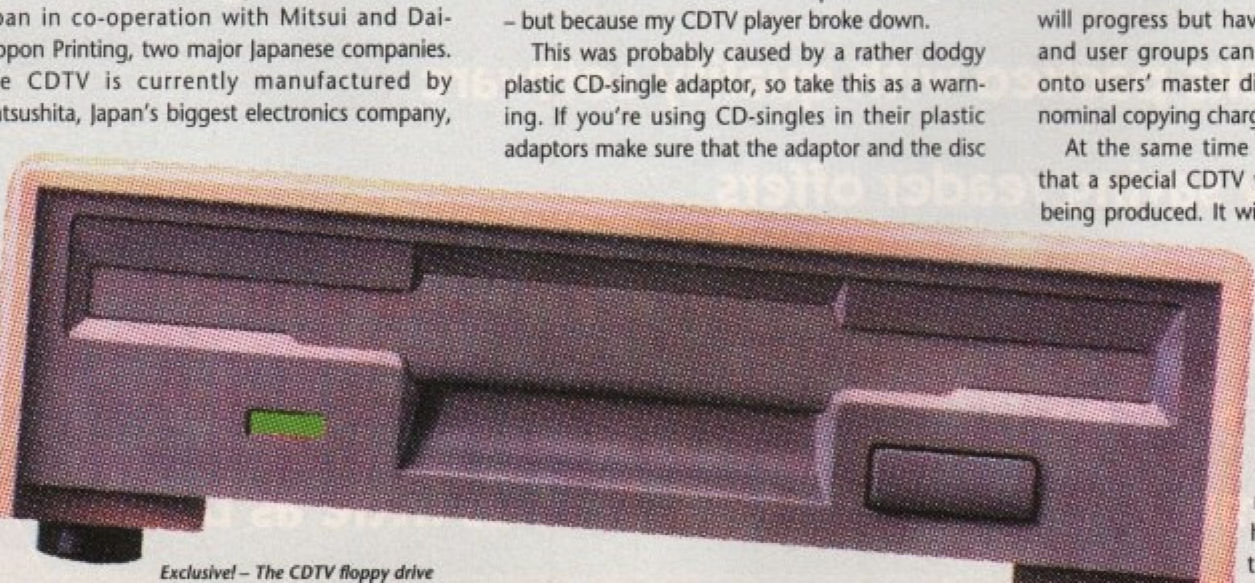
This was probably caused by a rather dodgy plastic CD-single adaptor, so take this as a warning. If you're using CD-singles in their plastic adaptors make sure that the adaptor and the disc are perfectly flat. I've checked a couple of mine and they are not always supplied fitted properly.

My standard audio CD player isn't as fussy about wonky plastic adaptors, so it may have been pure coincidence that the CDTV died immediately after I put this CD single in, but be careful anyway. Many thanks to Sharon at Commodore for organising the replacement.

Commodore have announced that the long-awaited update to AmigaVision is now available. The current AmigaVision version is 1.72. Anyone with the older v1.53 – including most Amiga 3000 owners, as it is bundled with their machines – is entitled to a free update.

Commodore are not sure how the updates will progress but have suggested that dealers and user groups can copy the latest versions onto users' master disks for free, or for just a nominal copying charge.

At the same time Commodore announced that a special CDTV version of AmigaVision is being produced. It will allow easy control of all CD audio functions and will contain a runtime module that can be included on CDs. Currently AmigaVision has been ignored by the CDTV community because it uses too much memory and does not have any distributable runtime module.



Exclusive! – The CDTV floppy drive

FOR UNDER £20!

PLUS SELECT A FREE GIFT WORTH UP TO £60!



OFFER C

BLUES BROTHERS

Now you can get rocking and bopping with the Blues Brothers by Titus.

You just can't afford to miss 5 levels of fast and frantic platform fun! With a brilliant soundtrack and great graphics, Blues Brothers is a classic.

WORTH £25.99

SAVE £33

OFFER D

AMOS The Creator

AMOS is the definitive language for the Amiga. Creating graphics, text, sound and much more is simplicity itself. Over 40,000 users already know the benefits of using AMOS and you can join them at an incredibly low price when you subscribe to *Amiga Computing.*





AMOS 3D

Generate outstanding 3D effects as seen in many software classics like Elite and Starglider II. You can create complex objects using building blocks which you can stretch, rotate, resize and glue together. You'll soon be creating your very own 3D world.

• Note: This software cannot be used without Amos The Creator.

OFFER E

SAVE £26

FREE BINDER

OFFER F

2 FREE ISSUES & BINDER

Subscribe and we will send you a high quality Amiga Computing binder completely free.

Plus you will receive not only a binder but also Amiga Computing for an extra two months. That's 14 fact-packed issues in all!



SUBSCRIPTION ORDER FORM (including FREE monthly disk)

Please tick the appropriate box

6 months' subscription – UK Only *(including monthly cover disk)*

		New	Renewal
UK only	£19.95	9523 ☐	9524 ☐

12 months' subscription *(including monthly cover disk)*

		New	Renewal
UK	£34.95	9505 ☐	9506 ☐
Europe/Eire	£39.95	9598 ☐	9599 ☐
Rest of World	£54.95	9500 ☐	9501 ☐

MY CHOICE OF SPECIAL OFFER *(UK subscribers ONLY)*

OFFER A	Free	9525 ☐	OFFER D	£16.99	9517 ☐
OFFER B	£14.99	9526 ☐	OFFER E	£8.99	9519 ☐
OFFER C	Free	9528 ☐	OFFER F	Free	9529 ☐

Name ____________ Signed ____________

Address ____________

____________ Postcode ____________

Daytime telephone number in case of queries ____________

Subscription orders received before January 21 will commence with the February issue

VISA

Payment: please indicate method (✓)

☐ Cheque/Eurocheque made payable to Europress Publications Ltd

☐ Access/Mastercard/Eurocard/Barclaycard/Visa/Connect Expiry Date ___/___

Send to: Europress Direct, FREEPOST, Ellesmere Port, South Wirral L65 3EB (No stamp needed if posted in UK)

Order at any time of the day or night

Don't forget to give your name, address and credit card number

By phone: **051-357 1275**

By fax: **051-357 2813**

General queries: **051-357 2961**

To order see form on Page 189

AMIGA COMPUTING SUPER

The WORKSTATION is here!

It's no secret that the Amiga is the most powerful home computer of them all. What has remained a mystery for most newcomers is how to make the most of its immense potential. Now **Amiga Computing** has produced a floppy disk that is packed with everything you need to take the hassle out of harnessing the inbuilt power of your Amiga.



Many months of research and testing have resulted in a **simple-to-use**, single disk replacement for Commodore's Workbench which we're calling The WorkStation.

This indispensable collection of utilities, including some outstanding shareware never before assembled together on one disk, is now available for just £3.50.

It's too good to miss!

Aspiring artists: Here's the package you've been waiting for! Using nothing more than your trusty mouse you can now freeze and store any Amiga screen that runs under Workbench. Grab screens from your favourite PD game and "edit" those high scores using any popular paint package.

Got a faulty floppy? When vital disks get damaged, you'll now have the chance to try the seemingly impossible mission of recovering all your work. Workbench's geriatric DiskDoctor can be sent into retirement by this super utility!

Putting print to paper? The WorkStation disk includes a superb text editor. This powerful package has an unashamedly no-frills approach to producing and formatting professional looking text that would be envied by many of the more expensive commercial products.

The ability to design custom icons as standard is virtually unique to computers in the Amiga's class. The WorkStation turns your Amiga into a comprehensive design studio, providing a wide range of graphic tools that can make icon creation child's play.

Heart of The WorkStation is a powerful shareware package called SID. When you use it you can say goodbye to faceless blank screens and complex commands. Instead your mouse takes full control. Fiddle with files, display text and graphics, sample sounds, uncrunch archives... all this and more with just a click of a mouse button.

The WorkStation has a fully configured dynamic recoverable ram drive which acts like an extra invisible drive to your Amiga. It's a vast improvement on the standard Amiga drive because it is very flexible and goes easy on memory.

CODE	PRICE
9958	£3.50

STAR PRINTERS NEW



The very latest in 10" budget printers from Star offering excellent Near Letter Quality printing at a very low price. Compact and suprisingly versatile, the LC-20 will take the longest documents in its stride. Ideally suited to small business users as well as the enthusiast, the LC-20 is a natural successor to the best selling, award-winning LC-10.

Add £10 per printer for delivery

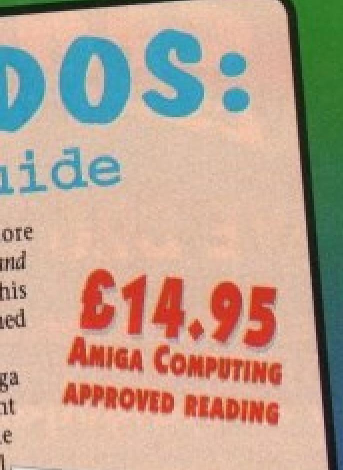
CODE	PRODUCT	PRICE
9839	Star LC20	£149.95
9840	Star LC200C	£205.95
9841	Star LC24-200C	£289.95
9845	Centronics Cable	£10.00

AMIGADOS: A Dabhand Guide

is a comprehensive guide to the Commodore Amiga's Disc Operating System (Version 1.2 *and* 1.3). It provides a unique perspective on this powerful system in a way which will be welcomed by the beginner and the expert user alike.

Rather than simply reiterating the Amiga manual, this book takes a genuinely different approach to understanding and using the Amiga and contains a wealth of practical hands-on advice, hints and tips.

£14.95 AMIGA COMPUTING APPROVED READING



The many features of this book include:

- Full coverage of Amiga DOS 1.3 functions
- Filing with and without workbench
- The Amiga's hierarchical filing system
- Pathnames and Device names
- The Amiga's multitasking capabilities
- The AmigaDOS screen editor
- AmigaDOS commands
- Batch processing
- Amiga Error code descriptions
- How to create new systems discs
- Use of the RAM discs
- Using AmigaDOS with C

CODE	PRICE
9866	£14.95

VIDI-AMIGA

Thanks to a breakthrough by Rombo Productions in frame-grabbing technology, you can now produce good colour images quickly and cheaply with Vidi-Amiga and the VidiChrome colour software.

FULL PAL SCREENS

- ***Take snapshots in 16 shades live from video***
- ***Multiple frame store***
- ***Dynamic cut and paste***
- ***Full palette control***
- ***Hardware and software control of brightness and contrast***
- ***Compatible with all video standards***

"Also available – Vidi-RGB Colour Splitter. The splitter is an electronic filter which takes a colour video signal and separates it into the three primary colours, allowing each to be digitised. Replaces the need for a conventional filter set and ideal for use with Vidi Amiga and VidiChrome Amiga".



"Vidi must be one of the most exciting peripherals you can buy for your Amiga" *Amiga Computing, March 1990*





CODE	PRODUCT	PRICE
9891	Vidichrome plus col. upgrade	£119.95
9964	RGB Splitter	£61.95

BARGAIN OFFERS

RE-INK SPRAY

Save money and the environment with Re-ink, the revolutionary new spray which brings to life exhausted printer ribbons. Simple and cost effective, open up your ribbons cartridge, spray a few squirts of



Re-ink and the ribbon is as good as new if not better. Re-ink will save you up to 90% on ribbon costs, give you cleaner, blacker print with no blotches and works for all fabric ribbons. Help reduce the 128 million ribbon throwaways each year and put an end to environmental waste.

CODE 9998 PRICE £12.95

WHY LET YOUR FINANCES BE A WORRY?

Personal Finance Manager

FOR THE AMIGA

Personal Finance Manager provides an easy way of looking after your bank account, building society account, credit cards and so on. Its WORKBENCH interface allows transactions to be entered or altered as easily as filling out a form

Full mouse control of PFM's window environment means a really user friendly program. PFM for the Amiga appears and runs exactly the same as our top selling PFM program for the Atari ST.
Automatic Standing Orders means that regular payments are never forgotten, whilst the graphic display will help you manage your account more effectively. Personal Finance Manager will even attempt to match your statements by automatically identifying transactions that haven't yet been cleared.

- *The number of entries is limited only by the size of the memory*
- *Full Workbench interface*
- *Account entries are automatically placed in date order*
- *Selectable date formats*
- *Automatic standing orders*
- *Auto balancing against statement*
- *Graphic analysis including: Balance plot Budget comparison. Spend pie charts*
- *Windows are moveable and re-sizeable*
- *Graphics are self-scaling to fit windows*
- *All windows can be displayed at the same time*
- *Account print option*
- *Full multi tasking – allows multiple account access*

MichTron

CODE 9942 PRICE £24.95

POWERPACKER PROFESSIONAL v4.0

You can't pump up a disk, but with **POWERPACKER** you can compress its contents into less than two-thirds of the space otherwise required for storage - on a floppy disc or hard drive.

POWERPACKER uses sophisticated "crunching" algorithms to reduce the sizes of files, allowing and average of 40% more material to be stored on the medium of your choice.

POWERPACKed programs load, "auto-decrunch" and run.

POWERPACKER includesseveral freely distributable utilities which access packed files at the click of an icon, so you can get full and quick use of them without decrunching:

PPMORE A fully-wfirdged screen text reader with options for string search and sending an on-screen image to a graphics printer.

PPANIM Plays a crunched anim file. Tremendous savings possible for storing and playing your animations.

PPTYPE Formats a crunched text file to the printer, including pagination and perforation skips.

Plus **DECRUNCH**, a utility that restores files to original sizes.

POWERPACKER PROFESSONAL © 1990 By Nico François

Distributed in the U.K. by Database Direct

Features:

- **Make your files 70% smaller!**
  Crunch (compact) executable/datafiles and make your files to 70% smaller. With the help of the PPloadseg utility, which you can install on your (hard) disk, you now can even crunch libraries and devices.
- **Comes with 2 new libraries.**
  Powerpacker and a new requester library with even more features and better menus.
- **Extra Powerpacker utilities**
  PPmore >> Displays packed ascii files
  PPshow >> Displays packed IFF pictures
  PPanim >> Displays packed animations
- **Crunchfactor even better than version 3.0b**
- **Detects Data or Command files.**
- **Full Arexx Support.**
- **Improved Menus and Colour Table**
- **Special Kickstart 2.0 version Included**

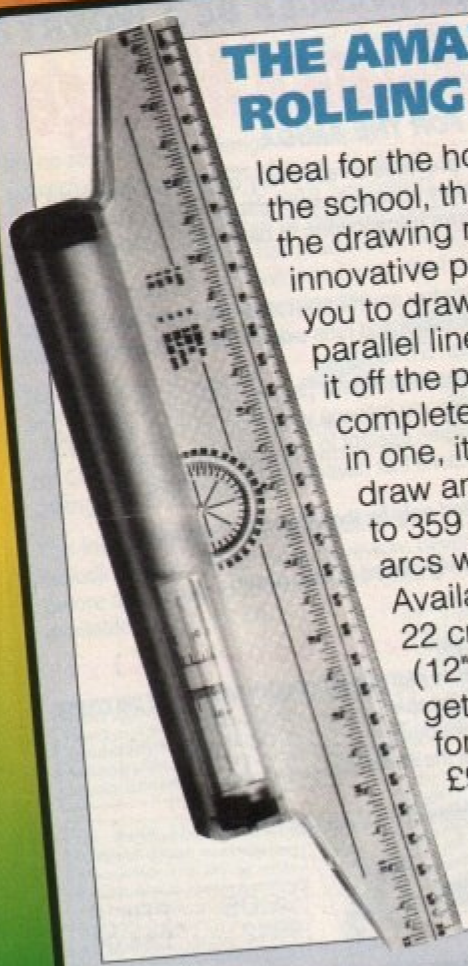


CODE 9838 PRICE £14.95

AMIGA COMPUTING

BARGAIN OFFERS

THE AMAZING ROLLING RULER



Ideal for the house, the office, the school, the workshop or the drawing room, this innovative product allows you to draw vertical and parallel lines without lifting it off the paper. A complete drawing board in one, it will also let you draw any angles from 1 to 359 and circles and arcs with ease.

Available in two sizes 22 cm (8") and 30 cm (12"), this great offer gets you **both** rulers for only £6.50 (RRP £9.95)

CODE	PRICE
9965	£6.50

Passing an exam . . . applying for a job . . . whatever you want to do in life you need to be able to SPELL!

There's mounting alarm about the appalling standards of spelling among Britain's schoolchildren. MPs, teachers, parents and employers are all stressing the vital importance of being able to spell correctly.

Yet most homes have what could be the ideal means of teaching spelling – the computer.

Instead of zapping aliens it could be turned into the best weapon of all to deal a body blow to bad spelling. With the help of a brilliant new software package that not only makes practising spelling painless but also loads of fun as well.

SPELL! is unique. It lets the user learn at his or her own pace. They can take as long as they like – or take on the computer in a high-speed challenge!

And this one package is ideal for everyone – with the lowest age group suitable for under-5s, while the more advanced words will stretch even the most able students.

It includes five different tests, each making use of more than 5,000 words – so much variety that you'll never get bored.

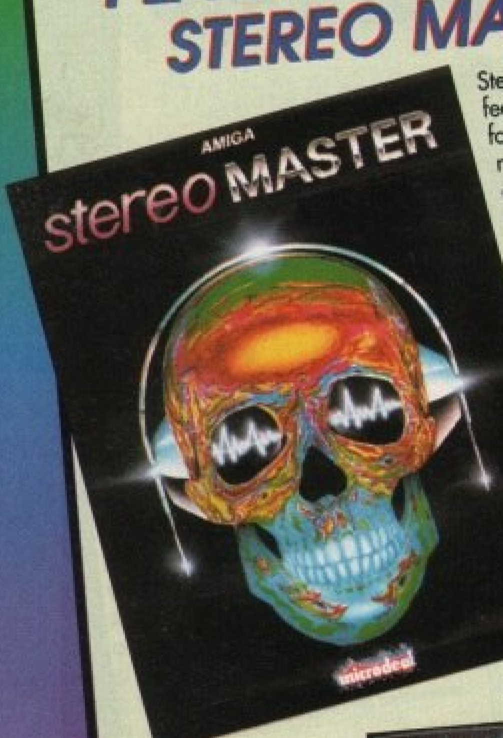


- 5 DIFFERENT TESTS
- OVER 5,000 WORDS
- FOR AGES 5 TO 15

SPELL! only costs £8.95. It is now available on disc and tape for six of the most popular home computers.

CODE	PRICE
3614	£8.95

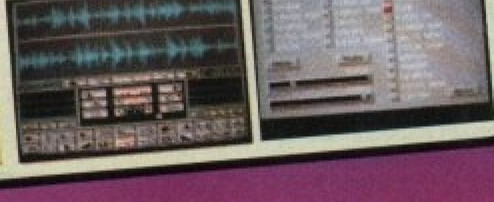
PLAY IT AGAIN WITH STEREO MASTER!



Stereo Master is the latest full feature STEREO sound sampler for the Amiga. This completely new hardware cartridge contains DUAL analogue to digital convertors, ensuring the ultimate in 8-bit sample quality.

The system can record in high quality stereo from its twin phono input sockets, sampling anything from a portable CD player to live radio!

Stereo Master compes complete with powerful editing and special effects software which allows samples to be loaded in 8, 12 or even 16-bit resolutions.



CODE	PRICE
9814	£34.95

Now you can own the toughest set of pens in the world – for much less than half price!



(Or buy two – and get them both for almost a quarter of the normal price)

The three pens that make up the Pentech 200 pen set can stand up to the roughest treatment you can inflict on them – and still give you best possible writing quality. The pens, made to the highest standards or workmanship, are not only robust but are of classic appearance suitable for all occassions from the home to the Board Room, from the school essay to the best selling novel.

We have made a special purchase of a limited number of Pentech sets and can now offer you this unique, high-quality writing technology at a price never before possible.

The normal retail price is £37.85. But with this special offer you can buy one set for just £14.95. Buy a second to offer a colleague as a present and we'll send you the two sets for £20!

The three pull-top pens in their presentation case consist of

- One cartridge pen
- One ballpoint pen
- One fine liner

Choose from smart matt black or satin chrome metal finish

CODE	PRODUCT	PRICE
9918	Matt Black Set	£14.95
9919	Silver Set	£14.95
9920	Both Sets as above	£20.00

AMIGA COMPUTING

READER OFFERS

Amiga Computing Magazine Binder

Using a system of strengthened steel rods, this handsome binder, embossed with the *Amiga Computing* logo, will hold 12 issues of your favourite magazine securely in place.

£5.95 *9509*

Amiga Computing Mouse Mats

Our mouse mat with the *Amiga Computing* logo, is the perfect desktop environment for your mouse, with its specially designed perfect grip surface. It ensures smooth movement, gives super positive control while protecting your tabletop from scratches.

£4.95 *9508*

Amiga Computing Dust Covers

Made from rugged PVC, bound with strong cotton and sporting the *Amiga Computing* logo, perfect for protecting your computer.

£4.95 *9507*

Lockable Disc Boxes

Prevent accidental damage to your discs, while keeping the area around your computer tidy with our high quality lockable disc boxes.

3.5" Disc box (50 disc capacity)	£7.95	*9826*
3.5" Disc box (100 disc capacity)	£9.95	*9827*

The Amiga Computing Back Issues

October 1991 + 3.5in disc	£3.10	*9740*
November 1991 + 3.5in disc	£3.10	*9741*
December 1991 + 3.5in disc	£3.10	*9742*

Back issues from other months are available – phone for details
Add £2 Europe/Eire, £3.50 Overseas for postqge per issue

Amiga Computing Back issue Bundle

July - December, 1991 + 3.5in disc £18.00 *9846*
Add £6 Europe/Eire, £12 Overseas towards postage

SPARE DISCS

5 Assorted Amiga Computing cover discs	£7.50	*9887*
25 Assorted Amiga Computing cover discs	£20.00	*9888*

Phazer Gun

Bored with play ing those repetitive joystick based games? The advanced light Phazer Gun from Trojan opens up a whole new phase of computer entertainment, presenting the challenge of skill and accuracy for gameplayers of all ages. Pack includes two free games and other games are available.

£39.95 *9802*

ProFlight

ProFlight, the most realistic flight simulator produced for the Amiga, doesn't forget it's primary role as a simulator and its secondary job of being a "shoot-em-up." Achieving accurate simulation by using exact mathematical models of flight equations, you meet the challenges that Tornado pilots face everyday.

£34.95 *9816*

Anti Click Virus

Protect yourself against viruses with this exclusive British made Anti Click/Anti Virus disk drive adaptor from Power Computing. Easy to install by plugging into your disk drive port on the Amiga, this handy gadget fights the war against viruses and stops the irritating click of an empty disk drive.

£19.95 *9825*

Mavis Beacon Teaches Typing

Simply the finest typing program in the world, this award winning software takes you step by step through the keyboard. Coaching you at your own speed and skill level, monitoring your progress, the stunning graphics, the help facilities and complete typing textbook makes learning to type interesting and fun.

£24.95 *9824*

Amiga Computing Mouse

We are able to offer readers of Amiga Computing an elegant high quality mouse to replace the sluggish Amiga rodent. Designed to use with any mouse driven application, the mouse is available for a limited period at a very special price.

£17.95 *9815*

Joysticks

You'll have awesome fire power at your fingertips with these top class joysticks from Dynamics – both feature auto fire and slow motion and are fully microswitched. Each is covered by a 2 year guarantee.

Competition Pro Extra	£14.95	*9954*
Competition Pro Glo Red	£13.95	*9955*

AMIGA COMPUTING

ORDER FORM

Offers subject to availability.
Overseas orders despatched by Airmail.
All prices include postage, packing and VAT
Valid to December 31, 1991

PRODUCT DESCRIPTION	PRODUCT REF.	PRICE
Please add postage as detailed below		

POSTAGE: Add £4 for Eire/Europe, £6 for Overseas unless specified above TOTAL £

Send to: Europress Direct, FREEPOST, Ellesmere Port, South Wirral L65 3EB (No stamp needed if posted in UK)

Products are normally despatched within 48 hours of receipt but delivery of certain items could take up to 28 days

Order at any time of the day or night

By phone: **051-357 1275**

By fax: **051-357 2813**

General Enquiries: **051-357 2961**

Don't forget to give your name, address and credit card number

I wish to pay by:

☐ Cheque/Eurocheque made payable to Europress Direct

☐ Access/Mastercard/Eurocard/Barclaycard/Visa/Connect Expiry Date /

Name ______ Signed ______

Address ______

______ Post Code ______

Daytime telephone number in case of queries ______

AMC 1

DIAL-A-TIP

CHEATS, TIPS AND GAME SOLUTIONS

CHEATS GALORE	0891 101 234
FROM IRELAND RING	03000 21244
MEGATIP GAMESLINE	0891 299 388
AMIGA GAMESTIPS	0891 299 386
AMIGA NEWS, TIPS AND TRICKS	0891 299 385
SHADOW OF THE BEAST I and II INTERACTIVE SOLUTIONS	0891 442 022
COMPUTER FUNLINE	0891 299 399

For information on all our other Cheatlines and Solutions
RING 0891 445 904
All lines updated weekly

Proprietor: JACQUELINE WRIGHT, P.O. Box 54, South West, Manchester M15 4LS
Calls charged at 36p per minute 'Cheap Rate' and 48p per minute all other times

KILLER SOUNDS

IFF SAMPLES

28 Edington Road, Milton of Culcabock, Inverness, Scotland IV2 3DB. Tel: (0463) 240346

We have thousands of IFF Samples from House to Heavy Metal, from Footsteps to Tibetan Monks. If it makes a noise we've got it.

- **KS38** – House Samples - 50 Samples
- **KS39** – House Samples - 43 Samples
- **KS63** – Musical Vocals - 44 Samples (Bap Bapa Lo Bap etc)
- **KS12** – Musical Effects 8 - 18 Samples (Tutti 1, Rain, Crystal etc)
- **KS24** – Break Beats - 11 Samples (Heavy Metal)

FOR 1 MEG AMIGAS ONLY

£4.99 EACH INC P&P

This is just a small part of our sample library, for latest catalogue, send SAE to above address.

ALSO AVAILABLE
CD-TV £579.99
(ALLOW 14 DAYS FOR CDTV DELIVERY)

Make Cheques/P.O's payable to **KILLER SOUNDS**

Cottage Industries

- ★ HOME BASED BUSINESS
- ★ EXPLOIT YOUR COMPUTER
- ★ THE ART OF MAKING YOUR COMPUTER EARN

For FREE details send first class stamp to:
Cottage Industries, 4 Oddfellow Court, Oddfellow Street, Ystradgynlais, Swansea SA9 1LH

STAR-TEL

COMMUNICATIONS

0704 501101

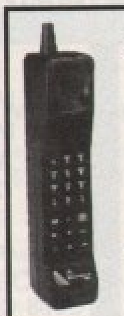
cellnet

Eg: Existing Customers
Tysons Builders PLC
First Leisure PLC
Expamet International PLC
Hepper Robinson PLC
Halifax PLC
Abbey National PLC

Eg: Existing Customers
Road Range Mercedes Ltd
Peugeot Cars Ltd
Cubleys Alfa Romeo Ltd
Roy Lloyd Ltd
Markit Meats Ltd
Duerdens
Vauxhall Ltd



MOTOROLA PERSONAL
£289 +VAT



MOTOROLA 8800X
£189 +VAT
For 7 Days Only

- Nationwide Sales and Service
- Vodafone or Cellnet
- No Hidden Charges
- 30 Second Billing
- No Charge for Engaged Calls
- No Charge for Unconnected Calls
- Large Maintenance Department Servicing Major Manufacturers Equipment
- Same day connection? Can anyone else do this?

BEST PRICES ON CAR ALARMS AND CAR AUDIO, HI-FI AND CD PLAYERS



NEW MODEL MOTOROLA 4800X TRANS PORTABLE
½ THE SIZE
£125 +VAT

NEC P3 £219 +VAT

HALF PRICE FAX MACHINES LIMITED STOCK AVAILABLE

PANASONIC F SERIES HAND PORTABLE, smallest phone in the world **£219 +VAT**

MITSUBISHI MT5 £299 +VAT

IF QUALITY IS IMPORTANT THE DIFFERENCE IS CLEAR

We deliver anywhere in the North West

MOTOROLA 4800X CAR PHONE £49+VAT fully fitted with aerial

ONE YEAR CONTRACT ½ Minute Billing
Don't risk buying from a small unknown dealer.
Our reputation and experience is your guarantee.

TULKETH MEWS,
66-70 TULKETH ST, SOUTHPORT, PR8 1RX
0704 501101

DON'T BUY FROM ANY DEALER WHO ISN'T A MEMBER OF THE FEDERATION OF COMMUNICATION SERVICES
AS QUOTED IN THE SUNDAY TIMES

fcs Federation of Communication Services

KING STREET,
KNUTSFORD, CHESHIRE
0704 501101

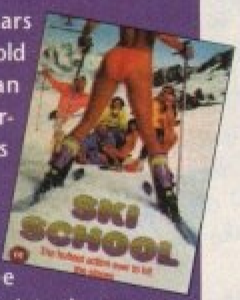
OPENING SOON:
FISHERGATE,
PRESTON,
LANCS

ENTERTAINMENT XTRA
SELL-THRU' SATELLITE CINEMA

The Sky's the limit, as they say, and try getting Antony Purvis to disagree with you as he previews the coming month on Sky's movie channels. Plus video reviews

Christmas box
Christmas videos to buy and keep forever

NATIONAL LAMPOON'S CHRISTMAS VACATION (PG) Warner, £10.99



Chevvy Chase stars as Clark W Griswold Jr, a family man with the heavy burden of Christmas on his shoulders.

Having found the perfect Christmas tree after an all-day trip into the country, he aims to excel himself this year. Clearly looking to become the envy of the neighbourhood, he single-handedly decorates every inch of the house with 25 sets of 100 blinking fairy lights.

Sadly, while Clark expounds the virtues of Christmas and all the traditions associated with it, two sets of warring grandparents and his cousin's family are all ensuring that Christmas night will be anything but silent.

Another good National Lampoon movie. Yule love it (I can't believe I just said that).

FATHER CHRISTMAS (U) Palace Video, £9.99



Raymond Briggs must do exceptionally well out of Christmas. Not only was his book *The Snowman* a Christmas hit everywhere, but the video has sold almost one million copies.

A repertoire of one is not a good thing, though, and no doubt it was with this in mind that the team behind *The Snowman* put together this animated film based on another Raymond Briggs book named, surprisingly enough, *Father Christmas*.

Mel Smith is featured as the voice of Father Christmas, and combined with some superb animation and a generally heart-warming story, this is an enjoyable little video. Sadly, like *The Snowman*, it lasts only 30 minutes, and as both titles are set to be screened on Channel 4 this festive season, it does make the asking price of £9.99 seem a little high.

Latest rental video releases
All available from December 4

THE ADVENTURES OF MILO AND OTIS MCEG Virgin Vision

Milo and Otis are not big Hollywood stars, but more your average cat and dog. Milo is a ginger cat, and Otis a pug-nosed dog.

Milo is a bit of a wanderer. As a young kitten he wanders off to discover the world, starting with the rest of the farm on which he lives. Very quickly he comes across Otis, and the two strike up an instant friendship.

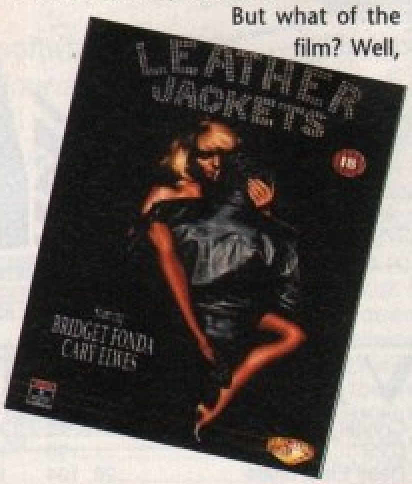
Together they share many adventures and experiences, for about 72 minutes, and then the film ends, leaving you with a nice warm glow inside. Yes, Milo and Otis is a cute film.

If you go gooey over sweet little furry kittens and all that jazz, Milo and Otis is *the* film to rent this month.

While this is really a children's film, it suited a big kid like me just fine. I liked it!

LEATHER JACKETS Medusa Home Video

Ah. Yet another *Rebel without a Cause* for the 1990s. Quite why leather jackets are still considered such a symbol of rebellion these days is a subject I had best leave to someone else. Nonetheless, along comes this film to perpetuate the myth that wearing a leather jacket makes you look "hard", as we used to say at school.



But what of the film? Well, it's another one of those "disturbingly realistic stories of love, sex and violence set against a backdrop of inner city gang warfare". Written and filmed in a "dark, tempestuous style", this "gritty" urban romance has more adjectives to describe it than there are shots in the film. Starring in this little number are Cary Elwes, D B Sweeney, Christopher Penn and Bridget Fonda, who may possibly be related to someone really famous. *Leather Jackets* is produced by Cassian Elwes. It is my personal opinion that Elwes should never have been allowed to produce another motion picture after the abysmal *Men At Work*, but clearly no-one else in the film business agrees with me.

Leather Jackets is one of those duff rentals that you won't even see to the end before you return it to the shop. Words like "gritty", "turbulent", and "explosive" do little justice to the film – just two words that I would use are "violent" and "rubbish".

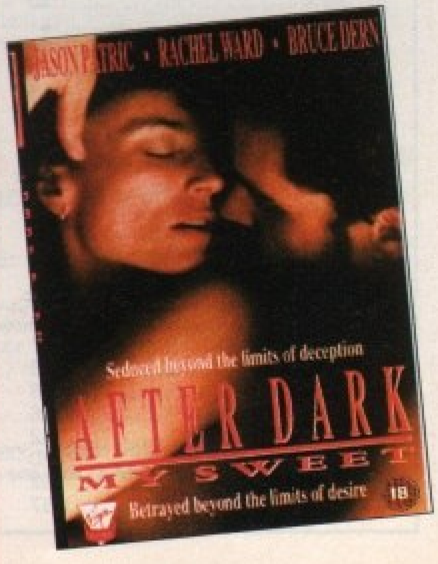
AFTER DARK, MY SWEET MCEG Virgin Vision

A tale of seduction, greed, betrayal, and all that. In this interesting new release, based on Jim Thompson's book *The Grifters*, Jason Patric plays an escaped mental patient known as Collie.

Collie drifts into town where he attracts the attention of Fay Anderson (Rachel Ward), a hard-drinking, taunting yet tender widow, and a small-time con merchant named Uncle Bud (Bruce Dern).

Collie's arrival prompts Uncle Bud to attempt to fulfil his ambition to kidnap the son of a wealthy Palm Springs family.

Which is about as far as I got before it got far too "intriguing" for me to follow. Sadly, *After Dark My Sweet* didn't manage to keep my attention for more than about 10 minutes, after which it rambled on for a further 100 minutes in its own incomprehensible fashion. There are hundreds of better films than this around, so you've not even got an excuse to rent it in desperation.



Santa on satellite
Seasonal films

Lots of seasonal films on Sky Movies Plus and the Movie Channel this month, which is good because they'd seem a little out of place were they screened in August. Those schedulers at Sky have earned their brownie points this time, and no mistake.

December 17 and 24 sees *A Year Without Santa Claus*, a truly chilling prospect I think you'll agree. Meanwhile on December 2, 8, 12, 17, 21 and 24, *Ernest Saves Christmas*. Six times over, apparently. *The Life and Adventures of Santa Claus*, meanwhile, is chronicled on December the 11 and 24.

Rudolph's Shiny New Year can be seen on December 15 and 24, while over on the Movie Channel, both *Scrooge* (the Charles Dickens novel) and *Scrooged* (a Christmas comedy with Bill Murray) will be showing on the 7th and 22nd respectively.

Also on the Movie Channel on the 3rd, 12th, 21st and 25th you can see *The Kid Who Loved Christmas* and *The Life and Adventures of Santa Claus* is on the 11th and 24th.

Not forgetting *Yes Virginia, There is a Santa Claus* on the 7th, 15th, 23rd, 28th and 31st, and *It Nearly Wasn't Christmas* on the 9th, 15th, 20th, and 25th. That should be enough to give you that warm. Christmassy feeling inside well into the new year.

ROCK LOBSTER

The Amiga Computing team chill out!

S..COMPETITIONS..COMPETITIONS..CO

We have more competition winners than we know what to do with at the moment - space really is that short!

Sufficive to say that we have now dispatched prizes for the following compos: Stevies Cat, 76p, Caught in the Act, Mid life crisis, Monkey Island and Biffa.

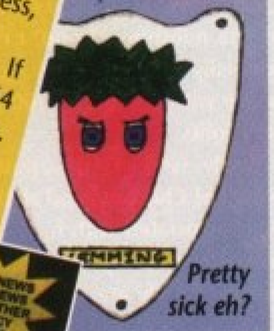
If you haven't received a prize yet - you haven't won. Better luck next time!

Oh no!

Cast your mind back if you will to the August '91 Rock Lobster and the rather sad figure of Anthony Brewer from Newbury.

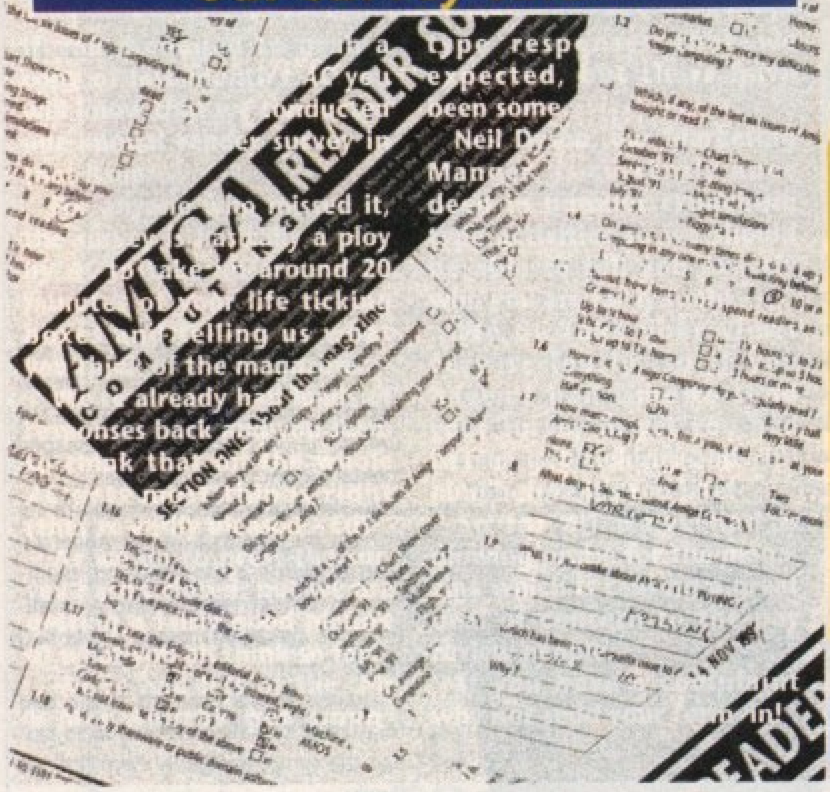
In the aforementioned Lobster we printed a chilling postcard from Anthony promising harm to the poor little Lemming folk of Psygnosisland if we didn't send him a load of goodies PDQ.

Well, we gave in and sent the goods, but it looks like Mr. Brewer couldn't resist harming the Lemmings. The entire AC team find this display of uncalled for violence totally repulsive.



Pretty sick eh?

Our survey said...



Crash! Zzap! Wallop!

Take a shuftie under your bed - is there a Speccy or a Commodore 64 lurking under there?

If you're anything like the AC team the answer will probably be a resounding "Yup!" In these high-tech days of Amiga sound and vision its often easy to forget just how much fun games like "Jetpack" and "Manic Miner" still are.

If you are a super observant type you will have noticed that the people who publish AC , Europress, took over "Crash" and "Zzap! 64" last month.

Great magazines for brilliantly fun machines. If you're the proud owner a super Speccy or a Sexy 64 why not nip out and pick up one of these great mags. You'll be shocked at how cheap the games are! Ahhh.. memories are made of this! (Advert end-Ed)

They're back and this time they're mad!



BOX CLEVER!

Having got over the shock of our new logo you will naturally want to know when the next fact packed issue of AC goes on sale - well it's dead easy to remember this time - just nip out to the newsie on ***BOXING DAY***

ADVERTISERS' INDEX

1st Choice (Leeds) 63, 64, 65
1066 161
17 Bit 138
3 Amigos 147
AJPD 191
Amiga Bandits (A.B.P.D) 123
Amiganuts 131
Amigaware 167
Analogic 157
Applebys 40
A.R.K 161
Aquarian PD 164
Arnor 8
Ashcom 45
Astrocalc 161
Atlas Computer Supplies 172
Audition Computers 164, 165
Bankhouse 100
Battleaxe 191
BCS 141
Best Prices Mail Order 54, 55
Bitcon Devices ....IBC
Black Knight 190
Calco 146
Checkmate Digital 6, 7
City Beat 58
Complex Computers 56
Computech Services 166
Computer Bookshops 42
Connect International 160
Cottage Industries 192
Cottage Software 167
Crystal Computers 12, 13
CVS 190
Datel Electronics 28, 104
Delta Pi 190
Dial a Disk 148
Digita International 39, 47
Digitz 166
DJW 157
Edlib 142
EMPDL 157
ESP 158
Europress S/W 14, 170, 176
Evesham 18, 19
Ferguson Smith 66
Futureworld 32, 33
Gasteiner 114
GB Systems Link 152
George Thompson 143
GJS Computer Services 157
Global Computing 160
Global Software 167
Goldstar 121
Gordon Harwood 107, 108, 109, 110, 111, 112, 113, 174
GSF Services 158
Guiding Light 192
Hi Soft 11
Homebased Business 158
Inpholink 158
Intraset 147
JCL 180
JJC 157
Killersound 192
Kosmos 166
Ladbroke 50
LCL 168
Load Crest PD 158
Manor Court Supplies 164
Marcam 178
Maximum PD 145
MD Office 38
Media Direct 22, 23, 24, 25, 132, 148, 152, 182
Media Value 148
Merlin 17
Merlin Computer 168
Microdeal 62, 102
Microman 158
MJC Supplies 150
Neural Images 130
New Dimensions 148
New Image Videos 190
Nick Williams Broadcast 142
Omega Projects 136
PDOM PD 126
Phantastic Games 156
Phoenix (SCC) ....IFC
Postal PD 145
Potteries PD 130
Power Computing 21, 31, 53, 61
Qualsoft 136
RC Simulations 182
Raw PD 147
Reality 161
Rombo ....OBC
School 152
Silica Systems 57, 99, 103, 117, 137, 155, 163
Siren 48, 49
SMG 146
Softmachine 144
Solid State Leisure 3
SPD 130
Star-Tel Communications 192
Strictly PD 116
Technomania 178
Telescan Computers 142
The PD Shop 157
Tomsoft 166
Unique Computing 118
UPD 124
Virgo 141
Voltmace 168
We Serve 135
Wizard Software 142
Zone Distribution 37

GAMER

Anco 19
Core Design ....OBC
Digital Integration 12
Entertainment International 17
Mindscape ....IFC, 5, IBC
Psygnosis 9

NEW

THE COMPLETE COLOUR SOLUTION

£179

Vidi ... No 1 in UK & Europe (Leading the way forward)



Get the most out of your Amiga by adding:

"The Complete Colour Solution"

The Worlds ultimate creative leisure product for your Amiga. Capture dynamic high resolution images into your Amiga in less than one second.

And Look No Filters

Images can now be grabbed from either colour video camera, home VCR or in fact any still video source. The traditional method of holding three colour filters in front of your video camera is certainly a thing of the past. Because Vidi splits the RGB colours electronically there are no focussing or movement problems experienced by some of our slower competitors. Lighting is also less of an issue as light is not being shut out by lens filters. Put all this together with an already proven Vidi-Amiga/VidiChrome combination and achieve what is probably the most consistant and accurate high quality 4096 colour images ever seen on the Amiga.

The colour solution is fully compatible with all Amiga's from a standard A500 to the ultimate A3000. No additional RAM is required to get up and running.

You will see from independant review comments that we are undoubtedly their first choice and that was before the complete solution was launched. If you have just purchased your Amiga and are not sure what to buy next, then just read the comments or send for full review and demo disk.



Actual unretouched digitised screenshot

Features ...

- Grab mono images from any video source
- Capture colour images from any still video source.
- Digitise up to 16 mono frames on a 1meg Amiga.
- Animate 16 shade images at different speeds.
- Create windows in both mono & colour.
- Cut & Paste areas from one frame to another.
- Hardware and software brightness & contrast control.
- Choice of capture resolutions standard & Dynamic interlace.
- Full Palette control.
- Add text or draw within art package.

Amiga Computing: The best Amiga digitiser has had the technicolour treatment. Vidi must be one of the most exciting peripherals you can buy for your Amiga.

Micro Mart: When I first saw Vidi "in the flesh" as it were, at the CES show last September it looked to be the answer to a frustrated Digi View owner's dreams – in fact to see pictures appearing on screen without the customary two minues wait seemed almost too good to be true. I have consistently produced more good quality pictures in the short time I have had Vidi than I ever did with Digiview.

Zero: Now under normal circumstances cheap usually means poor quality but this is not the case with Rombo. Why? cos Vidi-Amiga is the best digitiser for under £500 and I've tried them all.

Amiga Format: Where quality is concerned, Vidi produces some of the best results I've seen on any digitiser at any price.

Amiga User International: The latest addition to the Rombokit is called Vidi-RGB and brings this already impressive package to the realms of totally amazing. CONCLUSION: Who will find Vidi-Amiga useful? The answer to this is almost anyone with a video recorder or camera and a passing interest in graphics.



Full colour demonstration disk available for only £1.95 to cover P&P.

ROMBO Limited

6 Fairbairn Road, Livingston, EH54 6TS. Tel: 0506-414631 Fax: 0506-414634